



Module Support on Cisco's Integrated Services Routers Generation 2

At-A-Glance

Table 1. Module Support on ISR and ISR G2 — Service Modules, Network Modules and Extended Voice Modules

SM, NM, NME, EVM	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
ATM Modules						
NM-1A-OC3-POM	Data	3925 – 3945E	12.4(4)T, 12.4(3)	SP Svcs	3825 – 3845	Maximum of 1 Module in 3825, 3925, 3925E; 2 in 3845, 3945, 3945E
NM-1A-T3/E3	Data	3925 – 3945E	12.4(15)T	SP Svcs	2811 – 3845	Maximum of 1 Module in 3825, 3925, 3925E; 2 in 3845, 3945, 3945E
Serial WAN Interface Modules						
NM-1T3/E3	IP Base	2951 - 3945E	12.2(13)T	IP Base	2811 – 3845	Maximum of 1 Module in 2951, 3825, 3925, 3925E; 2 in 3845 & 3945E
Channelized T1/E1 and ISDN PRI Modules (Data Only)						
NM-8CE1T1-PRI	IP Base	3925 – 3945E	12.4(20)T	IP Base	3825 – 3845	Maximum of 1 Module in 3825, 3845, 3925, 3925E, 3945, 3945E
Ethernet Switch Modules						
SM-ES2-16-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3-16-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3G-16-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES2-24	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES2-24-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3-24-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3G-24-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-D-ES2-48	IP Base	2921 – 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
SM-D-ES3-48-P	IP Base	2921 – 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
SM-D-ES3G-48-P	IP Base	2921 – 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
NM-16ESW	IP Base	2911 – 3945	12.2(8)T	IP Base	2811 – 3845	tied to platform slot density
NM-16ESW-1GIG	IP Base	2911 – 3945	12.2(8)T	IP Base	2811 – 3845	tied to platform slot density
NME-16ES-1G	IP Base	2911 – 3945E	12.4(3), 12.4(4)T	IP Base	2811 – 3845	tied to platform slot density
NME-16ES-1G-P	IP Base	2911 – 3945E	12.4(1), 12.3(14)T	IP Base	2811 – 3845	tied to platform slot density
Analog and Digital Voice/Fax Modules						
EVM-HD-8FXS/DID	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Max of 1 in 2821-3825, 2911-2921, 2 in 3845, 2951, 3925, 3925E, 4 in 3945, 3945E
EM3-HDA-8FXS/DID	Unif. Comm.	2911 – 3945E	12.4(20)T	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
EM-HDA-3FXS/4FXO	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
EM-HDA-6FXO	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
EM-4BRI-NT/TE	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
NM-HD-1V	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density
NM-HD-2V	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density



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Table 2. Module Support on ISR and ISR G2 — WAN Interface Cards, Voice Interface Cards, Voice WAN Interface Cards

EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
Serial WAN Interface Modules						
HWIC-1T	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-2T	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4T	IP Base	2901 – 3945E	12.3(14)T	IP Base	2801 – 3845	tied to platform slot density
HWIC-1DSU-T1	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4T1/E1	IP Base	2911 – 3945E	12.4(20)T	IP Base	2821 – 3845	Max of 1 on 2911, 2 on 2821-2851 & 2921-2951, 4 on 3800, 3900
Serial Sync/Async Interface Modules						
HWIC-2A/S	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4A/S	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-8A/S-232	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-8A	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-16A	IP Base	2901 – 3945E	12.3(14)T	IP Base	2801 – 3845	tied to platform slot density
Channelized T1/E1 and ISDN PRI Modules (Data Only)						
HWIC-1CE1T1-PRI	IP Base	2911 – 3945E	12.4(20)T	IP Base	2811 – 3845	tied to platform slot density
HWIC-2CE1T1-PRI	IP Base	2911 – 3945E	12.4(20)T	IP Base	2811 – 3845	tied to platform slot density
Multiflex Trunk Voice & WAN Interface Cards						
VWIC2-1MFT-T1/E1	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
VWIC2-2MFT-T1/E1	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
VWIC2-1MFT-G703	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
VWIC2-2MFT-G703	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
EC-MFT-32	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
EC-MFT-64	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
Analog Dialup Modules						
WIC-1AM-V2	IP Base	1941 – 3945E	12.4(3), 12.4(4)T	IP Base	1841 – 3845	tied to platform slot density
WIC-2AM-V2	IP Base	1941 – 3945E	12.4(3), 12.4(4)T	IP Base	1841 – 3845	tied to platform slot density
ISDN BRI Modules						
WIC-1B-S/T-V3	IP Base	1941 – 3945	12.3(8)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4B-S/T	IP Base	1941 – 3945E	12.4(20)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-1B-U	IP Base	1941 – 3945E	12.4(20)T, 12.4(16)	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
Broadband Modules						
HWIC-1ADSL	IP Base	1941 – 3945	12.4(4)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945



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EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
HWIC-1ADSLI	IP Base	1941 – 3945	12.4(4)T	IP Base	1841 – 3845	Max 2 on 1941-2901, Max 4 on 2911-3945E
HWIC-ADSL-B/ST	IP Base	1941 – 3945E	12.4(6)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-ADSLI-B/ST	IP Base	1941 – 3945E	12.4(6)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-1ADSL-M	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-2SHDSL	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-4SHDSL	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-CABLE-D-2	IP Base	1941	12.4(11)T	IP Base	1841 – 3845	Max of 2 on 1941, 1841-2801, 4 on 2811-3845
HWIC-CABLE-E/J-2	IP Base	1941	12.4(11)T	IP Base	1841 – 3845	Max of 2 on 1941, 1841-2801, 4 on 2811-3845
Ethernet Routed-Port Modules						
HWIC-1FE	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 1 on 1841, 1941, 2 on 2811-2851, 2911-2951, 4 on 3800 & 3900
HWIC-2FE	IP Base	1941 – 3945E	12.4(15)T9, 12.4(20)T	IP Base	1841 – 3845	Max of 1 on 1841, 1941, 2 on 2811-2851, 2911-2951, 4 on 3800 & 3900
HWIC-1GE-SFP	IP Base	1941 – 3945E	12.3(8)T4	IP Base	1841 – 3845	Max of 1 on 1841-2851 & 1941-2951, 2 on 3825-3945E
Ethernet Switch Modules						
HWIC-4ESW	IP Base	1941 – 3945E	12.3(8)T	IP Base	1841 – 3845	Maximum of 2 across the portfolio, Not supported on 1941W SKUs
HWIC-4ESW-POE	IP Base	1941 – 3945E	12.3(8)T	IP Base	1841 – 3845	Maximum of 2 across the portfolio, Not supported on 1941W SKUs
HWIC-D-9ESW	IP Base	1941 – 3945E	12.3(8)T	IP Base	2801 – 3845	None on 1841 & 1941W, Max of 1 on 1941, Max of 2 across rest of the portfolio
HWIC-D-9ESW-POE	IP Base	1941 – 3945E	12.3(8)T	IP Base	2801 – 3845	None on 1841 & 1941W, Max of 1 on 1941, Max of 2 across rest of the portfolio
Voice Interface Cards						
VIC3-2FXS/DID	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC3-2FXS-E/DID	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC3-4FXS/DID	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC3-2E/M	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC2-2BRI-NT/TE	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
VIC2-2FXO	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
VIC2-4FXO	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
Wireless WAN Modules						
HWIC-3G-HSPA	IP Base	1941 – 3945E	15.0(1)M	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-HSPA-A	IP Base	1941 – 3945E	15.1(1)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-HSPA-G	IP Base	1941 – 3945E	15.1(1)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-GSM	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-CDMA-S	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-CDMA-V	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density

¹ ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

² Not an enforced limit, recommended limit subject to router performance capabilities.



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Table 3. Module Support on ISR and ISR G2 — PVDMs, Internal Service Modules, SFPs for Onboard Ethernet Ports

PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
Digital Modem Modules						
PVDM2-12DM	IP Base	2911 – 3945	12.4(9)T	IP Base	2811 – 3845	tied to platform slot density
PVDM2-24DM	IP Base	2911 – 3945	12.4(9)T	IP Base	2811 – 3845	tied to platform slot density
PVDM2-36DM	IP Base	2911 – 3945	12.4(9)T	IP Base	2811 – 3845	tied to platform slot density
Packet Voice Digital Signal Processor Modules						
PVDM3-16	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-32	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-64	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-128	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-192	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-256	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM2-8	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-16	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-32	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-48	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-64	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
Application Modules						
ISM-SRE-300-K9	IP Base	1941 – 3945	15.0(1)M	-	Not Supported	Maximum of 1 across the portfolio. Not supported on 3925E, 3945E
Small Form-Factor Pluggable Modules						
GLC-LH-SM	IP Base	2921 – 3945E	12.3(1)T		3825 – 3845	tied to platform GE SFP port density
GLC-SX-MM	IP Base	2921 – 3945E	12.3(1)T		3825 – 3845	tied to platform GE SFP port density
GLC-ZX-SM	IP Base	2921 – 3945E	12.3(1)T		3825 – 3845	tied to platform GE SFP port density
GLC-FE-100FX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-FE-100LX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-FE-100ZX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-FE-100EX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-GE-100FX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-BX-D	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-BX-U	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1470	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1490	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density



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PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
CWDM-SFP-1510	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1530	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1550	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1570	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1590	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1610	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3033	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3112	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3190	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3268	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3425	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3504	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3582	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3661	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3819	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3898	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3977	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4056	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4214	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4294	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4373	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4453	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4612	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4692	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4772	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4851	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5012	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5092	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5172	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5252	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5413	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5494	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density



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DWDM-SFP-5575	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5655	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5817	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5898	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5979	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-6061	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
USB Flash Storage Modules						
MEMUSB-1024FT	IP Base	1941 – 3945E	15.0(1)M	–	Not Supported	tied to platform USB slot density

¹ ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

² Not an enforced limit, recommended limit subject to router performance capabilities.



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Table 4. Module Support on Cisco 1861 ISR — HWICs

HWIC, WIC, VIC, VWIC	IOS Image for 1861 ISR Support	IOS Version that introduced support on 1861 ISR
Serial WAN & T1/E1 Interface Modules		
HWIC-1SER	SP Services	12.4(20)T
HWIC-2SER	SP Services	12.4(20)T
HWIC-1T1/E1	SP Services	12.4(20)T
Broadband Modules		
HWIC-1ADSL	SP Services	12.4(20)T
HWIC-1ADSLI	SP Services	12.4(20)T
HWIC-ADSL-B/ST	SP Services	12.4(20)T
HWIC-ADSLI-B/ST	SP Services	12.4(20)T
HWIC-1ADSL-M	SP Services	12.4(20)T
HWIC-2SHDSL	SP Services	12.4(20)T
HWIC-4SHDSL	SP Services	12.4(20)T
HWIC-CABLE-D-2	SP Services	12.4(20)T
HWIC-CABLE-E/J-2	SP Services	12.4(20)T
Ethernet Routed-Port Modules		
HWIC-1FE	SP Services	12.4(20)T3
HWIC-2FE	SP Services	12.4(20)T3
HWIC-1GE-SFP	SP Services	12.4(20)T3
Wireless WAN Modules		
HWIC-3G-GSM	SP Services	12.4(20)T
HWIC-3G-CDMA-S	SP Services	12.4(20)T
HWIC-3G-CDMA-V	SP Services	12.4(20)T
HWIC-3G-HSPA	SP Services	15.0(1)M



Module Support on Cisco's Integrated Services Routers Generation 2

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Table 5. Unsupported Modules on ISR G2 — Cisco 1900, 2900 and 3900 Series routers

Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
VWIC-1MFT-T1	VWIC2-1MFT-T1/E1	EoS Sept 2008
VWIC-1MFT-E1	VWIC2-1MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-T1	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-E1	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-1MFT-G703	VWIC2-1MFT-G703	EoS Sept 2008
VWIC-2MFT-G703	VWIC2-2MFT-G703	EoS Sept 2008
VWIC-2MFT-T1-DI	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-E1-DI	VWIC2-2MFT-T1/E1	EoS Sept 2008
VIC-2E/M	VIC3-2E/M	EoS June 2009
VIC-2FXS	VIC3-2FXS/DID, VIC3-2FXS-E/DID	EoS June 2009
VIC-2DID	VIC3-2FXS/DID, VIC3-2FXS-E/DID	EoS June 2009
VIC-4FXS/DID	VIC3-4FXS/DID	
WIC-1B-U-V2	HWIC-1B-U	EoS Aug 2009
WIC-1ADSL	HWIC-1ADSL, HWIC-1ADSLI	EoS Nov 2009
WIC-1ADSL-DG	HWIC-1ADSL, HWIC-1ADSLI	EoS March 2008
WIC-1ADSL-I-DG	HWIC-1ADSL, HWIC-1ADSLI	EoS March 2008
WIC-1SHDSL-V2	HWIC-2SHDSL, HWIC-4SHDSL	EoS March 2006
WIC-1SHDSL-V3	HWIC-2SHDSL, HWIC-4SHDSL	EoS June 2010
WIC-1T	HWIC-1T	EoS Dec 2009
WIC-2T	HWIC-2T	EoS Dec 2009
WIC-2A/S	HWIC-2A/S	EoS Dec 2009
WIC-1DSU-T1-V2	HWIC-1DSU-T1	EoS Dec 2009
WIC-1DSU-56K4	None	
HWIC-AP-AG-A	None, Wireless ISM option on Cisco 1941	EoS June 2007
HWIC-AP-AG-B	None, Wireless ISM option on Cisco 1941	
HWIC-AP-AG-E	None, Wireless ISM option on Cisco 1941	
HWIC-AP-AG-P	None, Wireless ISM option on Cisco 1941	
HWIC-AP-AG-N	None, Wireless ISM option on Cisco 1941	
HWIC-AP-G-A	None, Wireless ISM option on Cisco 1941	
HWIC-AP-G-E	None, Wireless ISM option on Cisco 1941	
HWIC-AP-G-J	None, Wireless ISM option on Cisco 1941	
AIM-VPN/SSL-1	on-board HW crypto acceleration on router	No AIMS supported on ISR G2



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Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
AIM-VPN/SSL-2	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/SSL-3	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/BPII-PLUS	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/EPPI-PLUS	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/HPPI-PLUS	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-ATM	None	No AIMs supported on ISR G2
AIM-COMPR4	None	No AIMs supported on ISR G2
AIM-APPRE-102-K9	ISM-SRE-300-K9	No AIMs supported on ISR G2
AIM-IPS-K9	NME-IPS-K9	No AIMs supported on ISR G2
AIM-TPO-1	NME-WAE-502	No AIMs supported on ISR G2
AIM-TPO-2	NME-WAE-502	No AIMs supported on ISR G2
EM-HDA-8FXS	EM3-HDA-8FXS/DID	
EM-HDA-4FXO	EM-HDA-6FXO	
EM2-HDA-4FXO	EM-HDA-6FXO	
PVDM-12	PVDM2-16, PVDM3-16	EoS Sept 2006
DSP-HDA-16	PVDM2-16, PVDM3-16	
NM-8AM-V2	WIC-1AM-V2	EoS Aug 2009
NM-16AM-V2	WIC-2AM-V2	EoS Aug 2009
NM-6DM	PVDM2-12DM	EoS March 2007
NM-12DM	PVDM2-12DM	EoS March 2007
NM-18DM	PVDM2-24DM	EoS March 2007
NM-24DM	PVDM2-24DM	EoS March 2007
NM-30DM	PVDM2-36DM	EoS March 2007
NM-4B-S/T	HWIC-4B-S/T	EoS Aug 2009
NM-8B-S/T	HWIC-4B-S/T	EoS Aug 2009
NM-4B-U	HWIC-1B-U	EoS April 2009
NM-8B-U	HWIC-1B-U	EoS April 2009
NM-4A/S	HWIC-4A/S	EoS Sept 2008
NM-8A/S	HWIC-8A/S-232	EoS Sept 2008
NM-16A/S	HWIC-8A/S-232	EoS Nov 2009
NM-4T	HWIC-4T	
NM-16A	HWIC-16A	EoS Sept 2009
NM-32A	HWIC-16A	



Module Support on Cisco's Integrated Services Routers Generation 2

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Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
NM-1CE1T1-PRI	HWIC-1CE1T1-PRI	EoS Dec 2008
NM-2CE1T1-PRI	HWIC-2CE1T1-PRI	EoS Dec 2008
NM-1HSSI	NM-1T3/E3	EoS Dec 2008
NM-1A-T3	NM-1A-T3/E3	EoS Nov 2008
NM-1A-E3	NM-1A-T3/E3	EoS Nov 2008
NM-16ESW-PWR	SM-ES2-16-P	EoS Oct 2008
NM-16ESW-PWR-1GIG	SM-ES2-16-P	EoS Oct 2008
NME-X-23ES-1G-P	SM-ES3-24-P, SM-ES3G-24-P	
NME-XD-24ES-2S-P	SM-ES3-24-P	EoS Apr 2010
NME-XD-48ES-2S-P	SM-D-ES3-48-P	
NM-CE-BP-40G-K9	NME-WAE-302-K9	EoS April 2008
NM-CE-BP-80G-K9	NME-WAE-502-K9	EoS April 2008
NM-AIR-WLC6-K9	NME-AIR-WLC8-K9	EoS Feb 2008
NM-CIDS-K9	NME-IPS-K9	EoS Feb 2008
NM-NAM	NME-NAM-80S	EoS October 2007
NM-CUE	NME-CUE	EoS April 2008
NM-CUE-EC	NME-CUE	EoS April 2008
NME-TPO	NME-WAE-522	EoS Dec 2009
NME-VMSS-16	None at FCS	
NME-VMSS-HP16	None at FCS	
NME-VMSS-HP32	None at FCS	
NME-WAE-302-K9	NME-WAE-502-K9	
NME-WAE-522-K9	NME-WAE-502-K9	
NME-APA-E2	None	
NME-APA-E3	None	
NM-AON-K9	None	EoS Oct 2007
NME-AON-K9	None	
NM-1FE-FX-V2	Onboard ISR G2 SFP ports on 2951-3945E	Onboard ISR G2 SFP ports on 2951-3945E
NM-1GE	HWIC-1GE-SFP	Onboard ISR G2 ports support Gigabit Ethernet
NM-2W	None	
NM-1FE1R2W	None	
NM-1FE2W-V2	None	
NM-2FE2W-V2	None	



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Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
NM-1VSAT-GILAT	None	
NM-CEM-4SER	None	
NM-CEM-4TE1	None	
NM-AIC-64	None	EoS Oct 2005
NM-HDV (all SKUs)	NM-HDV2	
NM-HDA-4FXS	EVM-HD-8FXS/DID	
NM-4T1-IMA, NM-4E1-IMA	None	EoS March 2004
NM-8T1-IMA, NM-8E1-IMA	None	EoS March 2004
MEMUSB-64FT	MEMUSB-1024FT	EoS
MEMUSB-128FT	MEMUSB-1024FT	
MEMUSB-256FT	MEMUSB-1024FT	



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Table 1. Module Support on ISR and ISR G2 — Service Modules, Network Modules and Extended Voice Modules

SM, NM, NME, EVM	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
ATM Modules						
NM-1A-OC3-POM	Data	3925 – 3945E	12.4(4)T, 12.4(3)	SP Svcs	3825 – 3845	Maximum of 1 Module in 3825, 3925, 3925E; 2 in 3845, 3945, 3945E
NM-1A-T3/E3	Data	3925 – 3945E	12.4(15)T	SP Svcs	2811 – 3845	Maximum of 1 Module in 3825, 3925, 3925E; 2 in 3845, 3945, 3945E
Serial WAN Interface Modules						
NM-1T3/E3	IP Base	2951 - 3945E	12.2(13)T	IP Base	2811 – 3845	Maximum of 1 Module in 2951, 3825, 3925, 3925E; 2 in 3845 & 3945E
Channelized T1/E1 and ISDN PRI Modules (Data Only)						
NM-8CE1T1-PRI	IP Base	3925 – 3945E	12.4(20)T	IP Base	3825 – 3845	Maximum of 1 Module in 3825, 3845, 3925, 3925E, 3945, 3945E
Ethernet Switch Modules						
SM-ES2-16-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3-16-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3G-16-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES2-24	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES2-24-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3-24-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-ES3G-24-P	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-D-ES2-48	IP Base	2921 – 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
SM-D-ES3-48-P	IP Base	2921 – 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
SM-D-ES3G-48-P	IP Base	2921 – 3945E	15.0(1)M	-	Not Supported	Maximum of 1 Double-Wide Switch SM in 2921 - 3945E
NM-16ESW	IP Base	2911 – 3945	12.2(8)T	IP Base	2811 – 3845	tied to platform slot density
NM-16ESW-1GIG	IP Base	2911 – 3945	12.2(8)T	IP Base	2811 – 3845	tied to platform slot density
NME-16ES-1G	IP Base	2911 – 3945E	12.4(3), 12.4(4)T	IP Base	2811 – 3845	tied to platform slot density
NME-16ES-1G-P	IP Base	2911 – 3945E	12.4(1), 12.3(14)T	IP Base	2811 – 3845	tied to platform slot density
Analog and Digital Voice/Fax Modules						
EVM-HD-8FXS/DID	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Max of 1 in 2821-3825, 2911-2921, 2 in 3845, 2951, 3925, 3925E, 4 in 3945, 3945E
EM3-HDA-8FXS/DID	Unif. Comm.	2911 – 3945E	12.4(20)T	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
EM-HDA-3FXS/4FXO	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
EM-HDA-6FXO	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
EM-4BRI-NT/TE	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2821 – 3845	Daughtercard for EVM-HD-8FXS/DID; max of 2 EM per EVM (any)
NM-HD-1V	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density
NM-HD-2V	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density



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SM, NM, NME, EVM	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
NM-HD-2VE	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density
NM-HDV2	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density
NM-HDV2-1T1/E1	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density
NM-HDV2-2T1/E1	Unif. Comm.	2911 – 3945E	12.3(8)T4	IP Voice	2811 – 3845	tied to platform slot density
VPN and Security Modules						
NME-NAC-K9	IP Base	2911 – 3945E	12.4(11)T	IP Base	2811 – 3845	Maximum of 1 in supported platforms
NME-IPS-K9	IP Base	2911 – 3945E	12.4(22)T	Adv. Sec	2811 – 3845	Maximum of 1 in supported platforms
Wireless LAN Modules						
NME-AIR-WLC6-K9	IP Base	2911 – 3945E	12.4(15)T	IP Base	2811 – 3845	Maximum of 1 in supported platforms
NME-AIR-WLC12-K9	IP Base	2911 – 3945E	12.4(15)T	IP Base	2811 – 3845	Maximum of 1 in supported platforms
NME-AIR-WLC25-K9	IP Base	2911 – 3945E	12.4(15)T	IP Base	2811 – 3845	Maximum of 1 in supported platforms
Application Modules						
SM-SRE-700-K9	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
SM-SRE-900-K9	IP Base	2911 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
EVM-IPVS-16A	IP Base	2911 – 3945E	12.4(13)T	IP Base	2821 – 3845	tied to platform slot density
NME-WAE-502-K9	IP Base	2911 – 3945	12.4(9)T	IP Base	2811 – 3845	Maximum of 1 in supported platforms
NME-NAM-80S	IP Base	2911 – 3945E	12.4(9)T	IP Base	2811 – 3845	Maximum of 1 in supported platforms
NME-NAM-120S	IP Base	2911 – 3945E	12.4(9)T	IP Base	2811-3845	Maximum of 1 in supported platforms
NME-CUE	IP Base	2911 – 3945E	12.4(9)T	IP Base	2811 – 3845	tied to platform slot density
NME-UMG	IP Base	2911 – 3945E	12.4(15)T	IP Base	2811 – 3845	tied to platform slot density
NME-UMG-EC	IP Base	2911 – 3945E	12.4(15)T	IP Base	2811 – 3845	tied to platform slot density
NME-CUSP-522K9	IP Base	2951 – 3945E	12.4(22)T	IP Base	3825 – 3845	tied to platform slot density
NME-APPRE-302-K9	IP Base	2911 – 3945E	12.4.15(T3)	IP Base	2811 – 3845	tied to platform slot density
NME-APPRE-502-K9	IP Base	2911 – 3945E	12.4.15(T3)	IP Base	2811 – 3845	tied to platform slot density
NME-APPRE-522-K9	IP Base	2951 – 3945E	12.4.15(T3)	IP Base	3825 – 3845	tied to platform slot density

¹ ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

² Not an enforced limit, recommended limit subject to router performance capabilities.



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Table 2. Module Support on ISR and ISR G2 — WAN Interface Cards, Voice Interface Cards, Voice WAN Interface Cards

EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
Serial WAN Interface Modules						
HWIC-1T	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-2T	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4T	IP Base	2901 – 3945E	12.3(14)T	IP Base	2801 – 3845	tied to platform slot density
HWIC-1DSU-T1	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4T1/E1	IP Base	2911 – 3945E	12.4(20)T	IP Base	2821 – 3845	Max of 1 on 2911, 2 on 2821-2851 & 2921-2951, 4 on 3800, 3900
Serial Sync/Async Interface Modules						
HWIC-2A/S	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4A/S	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-8A/S-232	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-8A	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-16A	IP Base	2901 – 3945E	12.3(14)T	IP Base	2801 – 3845	tied to platform slot density
Channelized T1/E1 and ISDN PRI Modules (Data Only)						
HWIC-1CE1T1-PRI	IP Base	2911 – 3945E	12.4(20)T	IP Base	2811 – 3845	tied to platform slot density
HWIC-2CE1T1-PRI	IP Base	2911 – 3945E	12.4(20)T	IP Base	2811 – 3845	tied to platform slot density
Multiflex Trunk Voice & WAN Interface Cards						
VWIC2-1MFT-T1/E1	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
VWIC2-2MFT-T1/E1	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
VWIC2-1MFT-G703	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
VWIC2-2MFT-G703	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
EC-MFT-32	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
EC-MFT-64	IP Base	1941 – 3945E	12.3(14)T	IP Base	1841 – 3845	tied to platform slot density
Analog Dialup Modules						
WIC-1AM-V2	IP Base	1941 – 3945E	12.4(3), 12.4(4)T	IP Base	1841 – 3845	tied to platform slot density
WIC-2AM-V2	IP Base	1941 – 3945E	12.4(3), 12.4(4)T	IP Base	1841 – 3845	tied to platform slot density
ISDN BRI Modules						
WIC-1B-S/T-V3	IP Base	1941 – 3945	12.3(8)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-4B-S/T	IP Base	1941 – 3945E	12.4(20)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-1B-U	IP Base	1941 – 3945E	12.4(20)T, 12.4(16)	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
Broadband Modules						
HWIC-1ADSL	IP Base	1941 – 3945	12.4(4)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945



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EHWIC, HWIC, WIC, VIC, VWIC	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
HWIC-1ADSLI	IP Base	1941 – 3945	12.4(4)T	IP Base	1841 – 3845	Max 2 on 1941-2901, Max 4 on 2911-3945E
HWIC-ADSL-B/ST	IP Base	1941 – 3945E	12.4(6)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-ADSLI-B/ST	IP Base	1941 – 3945E	12.4(6)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-1ADSL-M	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-2SHDSL	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-4SHDSL	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 2 on 1841-2801, 1941-2901, 4 on 2811-3845, 2911-3945E
HWIC-CABLE-D-2	IP Base	1941	12.4(11)T	IP Base	1841 – 3845	Max of 2 on 1941, 1841-2801, 4 on 2811-3845
HWIC-CABLE-E/J-2	IP Base	1941	12.4(11)T	IP Base	1841 – 3845	Max of 2 on 1941, 1841-2801, 4 on 2811-3845
Ethernet Routed-Port Modules						
HWIC-1FE	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	Max of 1 on 1841, 1941, 2 on 2811-2851, 2911-2951, 4 on 3800 & 3900
HWIC-2FE	IP Base	1941 – 3945E	12.4(15)T9, 12.4(20)T	IP Base	1841 – 3845	Max of 1 on 1841, 1941, 2 on 2811-2851, 2911-2951, 4 on 3800 & 3900
HWIC-1GE-SFP	IP Base	1941 – 3945E	12.3(8)T4	IP Base	1841 – 3845	Max of 1 on 1841-2851 & 1941-2951, 2 on 3825-3945E
Ethernet Switch Modules						
HWIC-4ESW	IP Base	1941 – 3945E	12.3(8)T	IP Base	1841 – 3845	Maximum of 2 across the portfolio, Not supported on 1941W SKUs
HWIC-4ESW-POE	IP Base	1941 – 3945E	12.3(8)T	IP Base	1841 – 3845	Maximum of 2 across the portfolio, Not supported on 1941W SKUs
HWIC-D-9ESW	IP Base	1941 – 3945E	12.3(8)T	IP Base	2801 – 3845	None on 1841 & 1941W, Max of 1 on 1941, Max of 2 across rest of the portfolio
HWIC-D-9ESW-POE	IP Base	1941 – 3945E	12.3(8)T	IP Base	2801 – 3845	None on 1841 & 1941W, Max of 1 on 1941, Max of 2 across rest of the portfolio
Voice Interface Cards						
VIC3-2FXS/DID	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC3-2FXS-E/DID	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC3-4FXS/DID	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC3-2E/M	Unif. Comm.	2901 – 3945E	12.4(20)T	IP Voice	2801 – 3845	tied to platform slot density
VIC2-2BRI-NT/TE	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
VIC2-2FXO	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
VIC2-4FXO	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
Wireless WAN Modules						
HWIC-3G-HSPA	IP Base	1941 – 3945E	15.0(1)M	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-HSPA-A	IP Base	1941 – 3945E	15.1(1)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-HSPA-G	IP Base	1941 – 3945E	15.1(1)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-GSM	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-CDMA-S	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density
HWIC-3G-CDMA-V	IP Base	1941 – 3945E	12.4(15)T	IP Base	1841 – 3845	tied to platform slot density

¹ ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

² Not an enforced limit, recommended limit subject to router performance capabilities.



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Table 3. Module Support on ISR and ISR G2 — PVDMs, Internal Service Modules, SFPs for Onboard Ethernet Ports

PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
Digital Modem Modules						
PVDM2-12DM	IP Base	2911 – 3945	12.4(9)T	IP Base	2811 – 3845	tied to platform slot density
PVDM2-24DM	IP Base	2911 – 3945	12.4(9)T	IP Base	2811 – 3845	tied to platform slot density
PVDM2-36DM	IP Base	2911 – 3945	12.4(9)T	IP Base	2811 – 3845	tied to platform slot density
Packet Voice Digital Signal Processor Modules						
PVDM3-16	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-32	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-64	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-128	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-192	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM3-256	Unif. Comm.	2901 – 3945E	15.0(1)M	-	Not Supported	tied to platform slot density
PVDM2-8	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-16	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-32	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-48	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
PVDM2-64	Unif. Comm.	2901 – 3945E	12.3(8)T4	IP Voice	2801 – 3845	tied to platform slot density
Application Modules						
ISM-SRE-300-K9	IP Base	1941 – 3945	15.0(1)M	-	Not Supported	Maximum of 1 across the portfolio. Not supported on 3925E, 3945E
Small Form-Factor Pluggable Modules						
GLC-LH-SM	IP Base	2921 – 3945E	12.3(1)T		3825 – 3845	tied to platform GE SFP port density
GLC-SX-MM	IP Base	2921 – 3945E	12.3(1)T		3825 – 3845	tied to platform GE SFP port density
GLC-ZX-SM	IP Base	2921 – 3945E	12.3(1)T		3825 – 3845	tied to platform GE SFP port density
GLC-FE-100FX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-FE-100LX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-FE-100ZX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-FE-100EX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-GE-100FX	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-BX-D	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
GLC-BX-U	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1470	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1490	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density



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PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
CWDM-SFP-1510	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1530	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1550	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1570	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1590	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
CWDM-SFP-1610	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3033	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3112	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3190	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3268	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3425	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3504	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3582	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3661	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3819	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3898	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-3977	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4056	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4214	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4294	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4373	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4453	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4612	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4692	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4772	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-4851	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5012	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5092	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5172	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5252	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5413	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5494	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density



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PVDM (DSPs), SFPs	IOS License for ISR G2 Support	ISR G2 Routers Supported on	IOS Version That Introduced Support	IOS Image for ISR Support	ISR Routers Supported on ¹	Recommended Modules per Chassis ²
DWDM-SFP-5575	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5655	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5817	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5898	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-5979	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
DWDM-SFP-6061	IP Base	2921 – 3945E	15.0(1)M		Not Supported	tied to platform GE SFP port density
USB Flash Storage Modules						
MEMUSB-1024FT	IP Base	1941 – 3945E	15.0(1)M	–	Not Supported	tied to platform USB slot density

¹ ISR Platforms from 1841 to 3845 excluding Cisco 1861. For Module Support on Cisco 1861 ISR, see table 4.

² Not an enforced limit, recommended limit subject to router performance capabilities.



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Table 4. Module Support on Cisco 1861 ISR — HWICs

HWIC, WIC, VIC, VWIC	IOS Image for 1861 ISR Support	IOS Version that introduced support on 1861 ISR
Serial WAN & T1/E1 Interface Modules		
HWIC-1SER	SP Services	12.4(20)T
HWIC-2SER	SP Services	12.4(20)T
HWIC-1T1/E1	SP Services	12.4(20)T
Broadband Modules		
HWIC-1ADSL	SP Services	12.4(20)T
HWIC-1ADSLI	SP Services	12.4(20)T
HWIC-ADSL-B/ST	SP Services	12.4(20)T
HWIC-ADSLI-B/ST	SP Services	12.4(20)T
HWIC-1ADSL-M	SP Services	12.4(20)T
HWIC-2SHDSL	SP Services	12.4(20)T
HWIC-4SHDSL	SP Services	12.4(20)T
HWIC-CABLE-D-2	SP Services	12.4(20)T
HWIC-CABLE-E/J-2	SP Services	12.4(20)T
Ethernet Routed-Port Modules		
HWIC-1FE	SP Services	12.4(20)T3
HWIC-2FE	SP Services	12.4(20)T3
HWIC-1GE-SFP	SP Services	12.4(20)T3
Wireless WAN Modules		
HWIC-3G-GSM	SP Services	12.4(20)T
HWIC-3G-CDMA-S	SP Services	12.4(20)T
HWIC-3G-CDMA-V	SP Services	12.4(20)T
HWIC-3G-HSPA	SP Services	15.0(1)M



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Table 5. Unsupported Modules on ISR G2 — Cisco 1900, 2900 and 3900 Series routers

Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
VWIC-1MFT-T1	VWIC2-1MFT-T1/E1	EoS Sept 2008
VWIC-1MFT-E1	VWIC2-1MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-T1	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-E1	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-1MFT-G703	VWIC2-1MFT-G703	EoS Sept 2008
VWIC-2MFT-G703	VWIC2-2MFT-G703	EoS Sept 2008
VWIC-2MFT-T1-DI	VWIC2-2MFT-T1/E1	EoS Sept 2008
VWIC-2MFT-E1-DI	VWIC2-2MFT-T1/E1	EoS Sept 2008
VIC-2E/M	VIC3-2E/M	EoS June 2009
VIC-2FXS	VIC3-2FXS/DID, VIC3-2FXS-E/DID	EoS June 2009
VIC-2DID	VIC3-2FXS/DID, VIC3-2FXS-E/DID	EoS June 2009
VIC-4FXS/DID	VIC3-4FXS/DID	
WIC-1B-U-V2	HWIC-1B-U	EoS Aug 2009
WIC-1ADSL	HWIC-1ADSL, HWIC-1ADSLI	EoS Nov 2009
WIC-1ADSL-DG	HWIC-1ADSL, HWIC-1ADSLI	EoS March 2008
WIC-1ADSL-I-DG	HWIC-1ADSL, HWIC-1ADSLI	EoS March 2008
WIC-1SHDSL-V2	HWIC-2SHDSL, HWIC-4SHDSL	EoS March 2006
WIC-1SHDSL-V3	HWIC-2SHDSL, HWIC-4SHDSL	EoS June 2010
WIC-1T	HWIC-1T	EoS Dec 2009
WIC-2T	HWIC-2T	EoS Dec 2009
WIC-2A/S	HWIC-2A/S	EoS Dec 2009
WIC-1DSU-T1-V2	HWIC-1DSU-T1	EoS Dec 2009
WIC-1DSU-56K4	None	
HWIC-AP-AG-A	None, Wireless ISM option on Cisco 1941	EoS June 2007
HWIC-AP-AG-B	None, Wireless ISM option on Cisco 1941	
HWIC-AP-AG-E	None, Wireless ISM option on Cisco 1941	
HWIC-AP-AG-P	None, Wireless ISM option on Cisco 1941	
HWIC-AP-AG-N	None, Wireless ISM option on Cisco 1941	
HWIC-AP-G-A	None, Wireless ISM option on Cisco 1941	
HWIC-AP-G-E	None, Wireless ISM option on Cisco 1941	
HWIC-AP-G-J	None, Wireless ISM option on Cisco 1941	
AIM-VPN/SSL-1	on-board HW crypto acceleration on router	No AIMS supported on ISR G2



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Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
AIM-VPN/SSL-2	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/SSL-3	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/BPII-PLUS	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/EPPI-PLUS	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-VPN/HPPI-PLUS	on-board HW crypto acceleration on router	No AIMs supported on ISR G2
AIM-ATM	None	No AIMs supported on ISR G2
AIM-COMPR4	None	No AIMs supported on ISR G2
AIM-APPRE-102-K9	ISM-SRE-300-K9	No AIMs supported on ISR G2
AIM-IPS-K9	NME-IPS-K9	No AIMs supported on ISR G2
AIM-TPO-1	NME-WAE-502	No AIMs supported on ISR G2
AIM-TPO-2	NME-WAE-502	No AIMs supported on ISR G2
EM-HDA-8FXS	EM3-HDA-8FXS/DID	
EM-HDA-4FXO	EM-HDA-6FXO	
EM2-HDA-4FXO	EM-HDA-6FXO	
PVDM-12	PVDM2-16, PVDM3-16	EoS Sept 2006
DSP-HDA-16	PVDM2-16, PVDM3-16	
NM-8AM-V2	WIC-1AM-V2	EoS Aug 2009
NM-16AM-V2	WIC-2AM-V2	EoS Aug 2009
NM-6DM	PVDM2-12DM	EoS March 2007
NM-12DM	PVDM2-12DM	EoS March 2007
NM-18DM	PVDM2-24DM	EoS March 2007
NM-24DM	PVDM2-24DM	EoS March 2007
NM-30DM	PVDM2-36DM	EoS March 2007
NM-4B-S/T	HWIC-4B-S/T	EoS Aug 2009
NM-8B-S/T	HWIC-4B-S/T	EoS Aug 2009
NM-4B-U	HWIC-1B-U	EoS April 2009
NM-8B-U	HWIC-1B-U	EoS April 2009
NM-4A/S	HWIC-4A/S	EoS Sept 2008
NM-8A/S	HWIC-8A/S-232	EoS Sept 2008
NM-16A/S	HWIC-8A/S-232	EoS Nov 2009
NM-4T	HWIC-4T	
NM-16A	HWIC-16A	EoS Sept 2009
NM-32A	HWIC-16A	



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Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
NM-1CE1T1-PRI	HWIC-1CE1T1-PRI	EoS Dec 2008
NM-2CE1T1-PRI	HWIC-2CE1T1-PRI	EoS Dec 2008
NM-1HSSI	NM-1T3/E3	EoS Dec 2008
NM-1A-T3	NM-1A-T3/E3	EoS Nov 2008
NM-1A-E3	NM-1A-T3/E3	EoS Nov 2008
NM-16ESW-PWR	SM-ES2-16-P	EoS Oct 2008
NM-16ESW-PWR-1GIG	SM-ES2-16-P	EoS Oct 2008
NME-X-23ES-1G-P	SM-ES3-24-P, SM-ES3G-24-P	
NME-XD-24ES-2S-P	SM-ES3-24-P	EoS Apr 2010
NME-XD-48ES-2S-P	SM-D-ES3-48-P	
NM-CE-BP-40G-K9	NME-WAE-302-K9	EoS April 2008
NM-CE-BP-80G-K9	NME-WAE-502-K9	EoS April 2008
NM-AIR-WLC6-K9	NME-AIR-WLC8-K9	EoS Feb 2008
NM-CIDS-K9	NME-IPS-K9	EoS Feb 2008
NM-NAM	NME-NAM-80S	EoS October 2007
NM-CUE	NME-CUE	EoS April 2008
NM-CUE-EC	NME-CUE	EoS April 2008
NME-TPO	NME-WAE-522	EoS Dec 2009
NME-VMSS-16	None at FCS	
NME-VMSS-HP16	None at FCS	
NME-VMSS-HP32	None at FCS	
NME-WAE-302-K9	NME-WAE-502-K9	
NME-WAE-522-K9	NME-WAE-502-K9	
NME-APA-E2	None	
NME-APA-E3	None	
NM-AON-K9	None	EoS Oct 2007
NME-AON-K9	None	
NM-1FE-FX-V2	Onboard ISR G2 SFP ports on 2951-3945E	Onboard ISR G2 SFP ports on 2951-3945E
NM-1GE	HWIC-1GE-SFP	Onboard ISR G2 ports support Gigabit Ethernet
NM-2W	None	
NM-1FE1R2W	None	
NM-1FE2W-V2	None	
NM-2FE2W-V2	None	



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Unsupported Modules on New ISRs	Replacement (Supported) Modules	Comments
NM-1VSAT-GILAT	None	
NM-CEM-4SER	None	
NM-CEM-4TE1	None	
NM-AIC-64	None	EoS Oct 2005
NM-HDV (all SKUs)	NM-HDV2	
NM-HDA-4FXS	EVM-HD-8FXS/DID	
NM-4T1-IMA, NM-4E1-IMA	None	EoS March 2004
NM-8T1-IMA, NM-8E1-IMA	None	EoS March 2004
MEMUSB-64FT	MEMUSB-1024FT	EoS
MEMUSB-128FT	MEMUSB-1024FT	
MEMUSB-256FT	MEMUSB-1024FT	