

ACI ACION 8000 Products



A8KMF3 – Main Frame is a 3RU 19" wide rack unit which provides 16 slots that can accommodate the ACION 8000 headend series plug-in application modules and power supplies.

A8KMF3 – Main Frame Chassis

- Designed for maximum density and flexibility: Up to 12 ACION 8000 plug-in application modules, 2 power supplies and 1 control modules in the 3RU housing
- Convenient Plug-and-Play
- Six cooling fans
- Designed so that the application and power supply modules are hot-swappable



A8KPCM2 – Platform Control Module is the control module for the ACION 8000 series mainframe. Use the LCD panel and keypad for local monitoring and configuration settings or use the RJ-45 port for remote monitoring and configuration settings.

A8KPCM2 – Platform Control Module

- LCD panel and keypad for local configuration settings
- Hot-swappable
- Local monitor port (RJ-45)
- Firmware updated by Ethernet
- Up to 192 modules can be monitoring by 1 control module
- Remote monitoring by HMS or SNMP



A8KAPS – An AC power supply module for the ACION 8000 headend platform. The power supply is designed to be hot swappable and will provide both load-sharing and a back-up redundant power supply when two power supplies are installed in one chassis.

A8KAPS – AC Power Supply

- Hot-swappable
- 90 to 240 VAC input (P/N A8KAPS)
- -48 VDC input (P/N A8KDPS-N48)
- Two built-in cooling fans
- One power supply can power up to 12 ACION 8000 modules
- Add second power supply for full redundancy & load-sharing



A8KFT3U-1310nm (1.2GHz) – 1310 nm forward transmitter module is 3RU in height and up to 12 modules can reside in the 19-inch high-density chassis (A8KMF3).

A8KFT3U-1310nm (1.2GHz) Forward Transmitter

- Up to 1218 MHz transmission bandwidth
- Cooled DFB laser diode with isolator
- 1310 nm optical wavelength
- Hot-swappable
- RF front-panel monitoring test point



A8KFT3U-1550nm (1.2GHz) – 1550 nm forward transmitter module is 3RU in height and up to 12 modules can reside in the 19-inch high-density chassis (A8KMF3).

A8KFT3U-1550nm (1.2GHz) Forward Optical Transmitter

- Up to 1218 MHz transmission bandwidth
- Cooled DFB laser diode with isolator
- ITU Grid Channel Option
- Remote monitor and control function by HMS or SNMP
- Hot-swappable



A8KFT3 QAM – Forward optical transmitter is designed to transmit the downstream signals on a specific CWDM ITU grid wavelength from 1470 to 1610 nm in 20 nm steps

A8KFT3 QAM – CWDM QAM Forward Optical Transmitter

- 55 to 870 MHz transmission bandwidth
- CWDM ITU Grid wavelengths 1470 to 1610 nm
- Remote monitor and control function by HMS or SNMP
- RF front-panel monitoring test point



A8KFR3 QAM – Forward optical receiver is designed to receive the downstream signals on a specific CWDM ITU grid wavelength from 1470 to 1610 nm in 20 nm steps

A8KFR3 QAM – CWDM QAM Forward Optical Receiver

- 55 to 870 MHz transmission bandwidth
- Input wavelengths CWDM ITU grid wavelengths 1471~1611 nm
- Remote monitor and control function by HMS or SNMP
- RF front-panel monitoring test point



A8KRT3 – Return optical CWDM transmitter is designed to transmit the upstream signals on a specific CWDM ITU grid wavelength from 1471 to 1611 nm in 20 nm steps

A8KRT3 – CWDM Return Optical transmitter

- 5 to 200 MHz transmission bandwidth
- CWDM ITU grid wavelengths 1471~1611 nm
- Remote monitor and control function by HMS or SNMP
- RF front panel test point



A8KQRR/DRR – The quad/dual return receiver is an integral part of reverse path network. There are four (QRR) or two (DRR) advanced independent receivers inside the module. 3RU in height and up to 12 modules can reside in the 19" high-density chassis

A8KQRR/DRR – Quad/Dual Return Receiver

- 4 optical inputs and 4 RF outputs (A8KQRR)
- 2 optical inputs and 2 RF outputs (A8KDRR)
- Maximum of 48 returns for (A8KQRR) or 24 returns for (A8KDRR) per chassis
- Optical wavelength: 1200 to 1600 nm
- Stand-alone receivers with no redundancy or A/B switch for redundant receivers (optional)



A8KEAM – EDFA (Erbium-Doped Fiber Amplifier) module is designed to for long-haul or wide broadcast applications.

A8KEAM – 1550 nm (C-Band) EDFA

- Operating windows: 1540~1560 nm
- Optical input power from -5 ~ 8 dBm
- Optical output power from 17 ~ 23 dBm
- Remote monitor and control function by HMS or SNMP



A8KQDR – The quad digital return receiver links to the node A34XMTDR transmitter to provide high quality digital return transmission.

A8KQDR - Quad Digital Return Receiver

- 5 to 45 MHz or 5 to 85 MHz bandwidth
- Maximum of 48 returns for Quad receiver modules per chassis
- High RF output @ 36 dBmV / 6.4 MHz channel for 45 MHz or 85 MHz operation
- Optical wavelength: 1260 to 1620 nm