

## 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



**A8KPCM – 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 RS-232 or Ethernet port for remote monitoring and configuration settings.

### A8KPCM – Platform Control Module

- LCD panel and keypad for local configuration settings
- Hot-swappable
- Local monitor port (RJ-45 to RS-232)
- Ethernet port for remote management
- 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 power range
- 220 Watts output power
- 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



**A8KFT3 1310 nm – 1310 nm** forward transmitter module is 3RU in height and up to 12 modules can reside in the 19-inch high-density chassis (A8KMF3).

### A8KFT3 – 1310 nm Forward Transmitter

- Up to 1002 MHz transmission bandwidth
- Cooled DFB laser diode with isolator
- 1310 nm optical wavelength
- Plug-in attenuator pad location for RF gain control
- Hot-swappable
- RF front-panel monitoring test point



**A8KFT3 1550nm – 1550 nm** forward transmitter module is 3RU in height and up to 12 modules can reside in the 19-inch high-density chassis (A8KMF3).

### A8KFT3 –1550 nm Forward Transmitter

- Up to 2.6 GHz transmission bandwidth
- Cooled DFB laser diode with isolator
- ITU Grid Channel Option
- Remote monitor and control function by HMS or SNMP
- Hot-swappable
- Plug-in JXP attenuator pads for RF gain control



**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 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 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 with 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 SNMP



**ACI NMS** – The network management system is designed to remotely monitor and control the ACI Headend units in multiple locations via a web browser interface

### ACI NMS – Network Management System

- Industrial PC for 1RU 19" rack mount
- 500G hard drive
- Support ACI A8K series products via SNMP
- Support ACI A5K series products via TCP
- Real-time monitoring with log reporting
- Multilanguage options available