

## AH6000 Converged High Density Headend Platform

### Features

- High Density Modular Design
- Up to 16 modules in 3RU chassis
- Comprehensive Modules (1310 & 1550nm)
- Low Power Consumption
- FTTH Video Overlay Applications
- Redundant Power
- USB Local Monitoring
- Universal Mgmt via SNMP Interface



### Specifications

Chassis	19" EIA, 3RU
Operating Temp, °C	0 to 50
Storage Temp, °C	-40 to 70
Operating relative humidity, %	5 to 85 non condensing
Dimensions (W x D x H)	441x412x132 mm, 18x16x5.2inch

## AH60-PS-AC or DC Power Supply

### Features

- 90 to 264 VAC wide range
- 24 VDC/300W output
- Hot-swap capability
- Built in power sharing circuit
- Auto-recovery short circuit protection
- Integrated fans for localized cooling
- LEDs for module status indication



### Specifications

Input AC/DC VAC	85 to 264 VAC IEC Male or 36 to 60 VDC
Power Consumption W	24 VDC / 300W
Power Efficiency %	86% @ 230 VAC or 84% @ 115VAC to 60 VDC
Short Circuit Protection	Yes
Dimensions (W x D x H)	48x395x128 mm, 1.9x16x5 inch

## AH60-SMM System Management Module

### Features

- Short circuit protection
- USB Port for local monitoring and setting
- RJ45 for communication with SNMP
- LEDs to indicate data access activity
- Hot-swap design
- Firmware field upgradeable



### Specifications

Front USB interface	USB B Type, 115200bps
SNMP Interface	RJ45, 10Mbps
Power Consumption W	5 Max
Dimensions (W x D x H)	24x395 x128 mm, 1x16x5 inch
Weight, kg	1 kg

## AH60-F3ST AH6000 Forward 1310nm Transmitter

### Features

- High performance distributed feedback (DFB) laser with pre-distortion circuit
- Hot-swap capability
- Bandwidth 45~1003MHz
- Automatic/manual gain control
- Broadband and narrowband input
- RF input test point
- Short circuit protection

### Specifications

Optical Wavelength	1310+/-20nm
RF bandwidth	50~1003 MHz
Optical Output Power	2, 4, 6, 8, 10, 11, 12, 13, 14, 15dBm
CNR	52dB (77ch NTSC, 15km fibre, -1dBm receive )
CSO /CTB	-63dBc/-67dBc
RF Input Level	15+/-4dBmV
Dimensions (W x D x H)	24x395x128 mm, 1x16x5 inch



## AH60-ARQR-ST/RD/RFoG AH6000 Quad Return RX

### Features

- Four independent return path receivers
- Hot-swap capability
- Bandwidth 5~200MHz
- 105dBuV output level
- -18 to 0dBm input optical power
- RFoG version with EIN 4 pA /VHz
- Manual attenuation control
- RF output test point

### Specifications

Wavelength	1200~1620nm
Optical Input Ports	4
Optical Input Level	-18 ~ 0dBm, -27 to -13dBm (RFoG)
RF Output Level (RD)	105dBuV (-7dBm with 16% OMI, 0dB att)
RF Output Level (RFoG)	90dBuV (-13dBm with 10% OMI, 28dB att)
RF Attenuation	30dB
CNR	50dB (0dB Pad, OMI = 16%, -7dBm receive )
CSO /CTB	-55dBc/-60dBc
Power Consumption	≤10 W (14W RFoG)
Dimensions (W x D x H)	48x395x128 mm, 1.9x16x5 inch



## AH60-F5ST AH6000 1550nm Direct Mod Transmitter

### Features

- High performance distributed feedback (DFB) laser with pre-distortion circuit
- Bandwidth 47~1003MHz
- Automatic/manual gain control (AGC/MGC)
- Broadband and narrowband input
- RF input test point
- OMI adjustment range: 10dB
- MGC scope: ±5dB

### Specifications

Optical Wavelength	1550+/-10nm, ITU Ch
RF bandwidth	47~1003 MHz
Optical Output Power	6, 8, 10dBm
CNR	50dB (77ch NTSC, 20km fibre, -1dBm receive )
CSO / CTB	-58dBc/-65dBc
RF Input Level	15+/-4dBmV
Dimensions (W x D x H)	24x395x128 mm, 1x16x5 inch



## AH60-EDFA AH6000 Optical Amplifier

### Features

- Video-Overlay for FTTx Applications
- Output from 14dBm to 23dBm
- Low noise, High Performance
- Single or double pump laser design
- 980nm Pump Laser
- Status monitoring and control
- SNMP Management

### Specifications

Wavelength	1540 to 1560nm
Input power	-3 to 10 dBm
Output power	14dBm to 23dBm
Output Power Stability	±0.5dB
Noise Figure, dB (PIN=0dBm)	<5 ( o/p<20dBm), <5.5 (o/p<23dBm )
Return Loss	40dB
Dimensions (W x D x H)	24x395x128 mm, 1x16x5 inch



## AH60-RFAF AH6000 RF Amplifier

### Features

- Forward RF Single Amplifier
- High linearity and low noise
- Front panel test point
- Single output port with up to 30dB gain
- 47 to 1003MHz RF output
- 20 or 30dB Gain options
- Remote attenuation/slope control

### Specifications

Bandwidth	47~1003MHz
Return Loss	18dB
Gain	30/20dB +/-0.6
ATT/SLOPE Range	0-9dB (0.5dB step)
Noise Figure	6.5@30dB Gain, 7.5@20dB Gain
CSO /CTB	-78dBc/-84dBc (40dBmV o/p, 77NTSC+75QAM)
Power Consumption	≤16 W
Dimensions (W x D x H)	48x395x128 mm, 1.9x16x5 inch



## AH60-RFSW AH6000 Forward RF Switch

### Features

- A/B Style RF Switch
- Hot Swap plug-in module
- Bandwidth 5~1003MHz
- RF level detection for auto matrix switching
- RF level monitoring for input and output
- Slope adjustment range from 0 to 4dB
- Remote monitoring and level setup

### Specifications

Bandwidth	5~1003MHz
Return Loss	16dB
Insertion loss	<7dB
SLOPE Control	0-4dB
Frequency Response	+/-0.75dB
Switching Time	≤15ms
Power Consumption	≤2 W
Dimensions (W x D x H)	24x395x128 mm, 1x16x5 inch



## AT5000 1RU XMOD 1/2 Output 1550nm Transmitter

### Features

- Video-Overlay for FTTx applications
- Cost Effective Single or Dual Output Port
- Performance with pre-distortion circuit
- Redundant Power Supply
- Intuitive Front Panel LCD Display
- Adjustable SBS
- Universal management through craft interface and SNMP

### Specifications

Optical Wavelength	1550+/-5nm and ITU Ch 21, 23, 25, etc.
RF bandwidth	47~862MHz or 47~1003 MHz
Optical Output Power	3, 6, 9(2p)dBm (7, 10dBm upon request)
SBS Suppression	13dBm(1p), 13-18dBm Field Adjustable(2p)
CNR	52dB (59ch PAL, TX to RX, 0dBm receive )
	50.5dB (59ch PAL, 50km fibre, TX with 13dBm EDFA to RX, 0dBm receive )
CSO /CTB	-65dBc/-65dBc
RF Input Level	18~28dBmV
Dimensions (W x D x H)	483x368x44 mm, 19x14.5x1.75 inch



## AT5000 1RU EDFA High Performance Optical Amplifier

### Features

- Video-Overlay for FTTx Applications
- Up to 32 Output Ports
- Low noise, High Performance
- Intuitive Front Panel LCD Display
- Adjustable Output
- Redundant Power
- Universal Mgmt with Craft Interface
- SNMP Management

### Specifications

Wavelength	1540 to 1563nm
Input power, dBm	-10 to 10, 3dBm typical
Maximum output power, dBm	26dBm per port
Output Power Stability, dB	±0.5
Noise Figure, dB (PIN=0dBm)	<5 ( o/p<19dBm), <6 ( o/p<23dBm ), <7 ( o/p<26dBm)
Power Supply	90 to 265 VAC or 30 to 72 VDC
Dimensions (W x D x H)	483x368x44 mm, 19x14.5x1.75 inch



## AT5000 1RU DMOD Forward 1550nm Transmitter

### Features

- Cost Effective Solution
- Video-Overlay for FTTx applications
- QAM DWDM Overlay
- Analog and Digital Video
- Redundant Power
- Intuitive Front Panel LCD Display
- Universal management through craft interface and SNMP

### Specifications

Optical Wavelength	1550+/-5nm
RF bandwidth	47~1003 MHz
Optical Output Power	6, 9dBm
CNR	50dB (60ch PAL, 15km fibre, -1dBm receive )
CSO /CTB	-54dBc/-63dBc
RF Input Level	20+/-2dBmV
Dimensions (W x D x H)	483x254x44 mm, 19x10x1.75 inch

