

APEX1500

Narrowcast Edge QAM



PRODUCT OVERVIEW

The APEX1500, an ARRIS narrowcast edge QAM product, is optimized for narrowcast applications such as SDV and VOD. The APEX1500 provides flexibility, high QAM density, license-free VOD encryption, and low power in an extremely cost-effective two RU platform. The APEX1500 supports up to 96 total QAM channels across either 12 or 24 RF ports. The number of RF ports depends on the type of QAM modules that are installed in the chassis.

QAM Modules

The APEX1500 supports up to six hot-swappable QAM modules. There are multiple QAM module variations as shown in the table below. A QAM module soft upgrade is available to field-convert a 2x4 module to a 2x8 module.

QAM Module	RF Ports	QAM / RF
2X4	2	4 (frequency range 57 to 999 MHz)
2X8	2	8 (frequency range 57 to 999 MHz)
4X4	4	4 (frequency range 69 to 999 MHz)

Note: The QAM and power supply modules used in the APEX1500 are the same as those used in the APEX1000 product.

Physical Chassis

The APEX1500 is a two RU modular chassis that supports up to six QAM modules and up to two redundant power supply modules.

Power Supplies

Support for up to two hot-swappable redundant load-sharing power supplies. Operate with either one or two power supplies installed. AC and DC power supplies may be ordered optionally.

Note: If using DC power, the APEX1500 requires the use of power supply model number SFD550-S101G. The use of power supply model number SFD550-12BS154G is for exclusive use on the APEX1000.

GigE Interface

The APEX1500 receives all MPEG data via GigE. The chassis includes eight embedded 1000BaseT GigE ports as well as four SFP slots for insertion of either copper or optical SFPs. The GigE interfaces are all fully IGMPv3 compliant. GigE input redundancy is supported.

Applications

The APEX1500 is an all narrowcast platform with support for:

- Standards based SDV
- VOD (Common Tier Encryption)

GENERAL SPECIFICATIONS		ENVIRONMENTAL	
MODULAR CHASSIS			
Chassis Height	Two RU	Operating Temperature	0° C to 40° C
Dimensions	3.5 in x 19.0 in x 25.5 in	Storage Temperature	-40° C to 70° C
Weight	34.5 lb (fully loaded)	Cooling	Eight fans, front-to-back airflow
QAM MODULES / RF OUTPUT		Operating Altitude	-200 feet to 10,000 feet AMSL
QAM Modules	Up to six per chassis; purchase 2x4 or 2x8 or 4x4 modules; software upgrade 2x4 to 2x8	Operating Humidity	5% to 95%
Hot-Swappable	Yes	GIGABIT ETHERNET INPUT/OUTPUT	
RF Ports	2x4 / 2x8: 12 (6 modules) 4x4: 24 (6 modules)	GigE MPEG Data	Receive Only
QAM Channels per RF Port 2x4 / 4x4 Module 2x8 Module	Up to four Up to eight	GigE Physical Ports	Eight Copper GigE interfaces; Four SFP Slots
Input Impedance	75 Ω	IGMPv3	Supported
POWER		Optical SFP Support	850, 1310, 15xx nm
Power Supplies	Two per chassis	Electrical SFP Support	1000Base-T
Hot-Swappable	Yes	OTHER PORTS	
Load Sharing	Yes	Fast Ethernet	Two RJ-45 Ethernet
AC Power Supply	100 to 240 VAC, 50/60 Hz	ASI Monitor	Single BNC
DC Power Supply SFD550-S101G	-40 to -60 VDC	DTI	Two RJ-45
Power Consumption	<3.5 W/QAM channel fully loaded (317 W typical)	Serial Port	Single DB9

APEX1500 Individual Component Part Numbers

Component	Description	Part Number
APEX1500 Chassis	QAM Modules and power supply modules sold separately.	573209-005-00
QAM Module (2X4)	Two RF ports per module enable up to four QAMs per port.	540273-001-00
QAM Module (2X8)	Two RF ports per module enable up to eight QAMs per port	540273-002-00
QAM Module (4x4)	Four RF ports per module enable up to four QAMs per port	540273-005-00
Power Supply Module (AC)	AC Power Supply	540272-001-00
Power Supply Module (DC)	DC Power Supply	540272-002-00

APEX1500 Set Configuration Part Numbers

APEX1500 V96 (2X8) AC	Includes one APEX chassis, one AC power supply module, six 2X8 QAM modules	573209-003-00
APEX1500 V96 (2X8) DC	Includes one APEX chassis, one DC power supply module, six 2X8 QAM modules	573209-004-00
APEX1500 V96 (4x4) AC	Includes one APEX chassis, one AC power supply module, six 4x4 QAM modules	573209-006-00
APEX1500 V96 (4x4) DC	Includes one APEX chassis, one DC power supply module, six 4x4 QAM modules	573209-007-00

QAM Module Upgrade

QAM Module Upgrade	Field convert a 2X4 module to an 2X8 QAM module	540400-001-00
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To order this service, contact your sales representative.

476666-086-00

APEX Configuration Service

CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656