

Headend Systems

DigiStar™ MK II Network Adapters

Overview

Telecom Networks are increasingly used for the transport of digital TV signals to regional sites, like cable TV headends and DTTV Transmitters. This Primary distribution can be achieved in an efficient and simple way using DS3 or E3 Interfaces for SONET/SDH networks. With the DigiStar™ Network Adapters, Scientific Atlanta offers a solution for carrying MPEG-2 or MPEG-4 Transport Streams over Telecom Networks.



DigiStar MK II Network Adapters are available for signal conversion between ASI and DS3 or E3. The network adapters are fully compliant with the ITU-T telecommunication standards to facilitate interoperability with existing equipment.

The compact design allows for up to 3 adapter modules in a 1 RU chassis. DigiStar MK II Network Adapters are a cost-effective product specially designed for CATV and Digital TV Network Headends.

Features

- Network adapter for signal conversion between ASI and DS3 or E3
- Complies with ITU-T G.703
- Supports framing according to G.832/G.751(E3) or G.804/G.752(DS3)
- Automatic framing control function
- Compatible with TANDBERG, DIVICOM, BARCONET, and Huawei Adapters
- DVB-C compliant channel encoding
- All signal format parameters individually selectable
- Automatic input signal selection
- Automatic fault correction
- Synchronizing regeneration
- LED display on front panel for adaptor operation status
- Local management system available for transport stream monitoring

Specifications

DS3/E3	Units	Specifications
Connector	—	BNC
Impedance	Ω	75
Interface Type	—	DS3(44.736Mbit/s) or E3(34.368Mbit/s) according to G.703
Format	—	Unframed or framed, framing according to G.804/G.752(DS3) or G.832/G.751(E3)
Input loop-through		
Type	—	Active
Connector	—	BNC
Impedance	Ω	75
ASI		
Connector	—	BNC
Impedance	Ω	75
Interface Type	—	ASI according to EN50083-9
Packet format	—	188 / 204 byte packets with or without RS

Local Communication Interface	Units	Specifications
Connector	—	RJ-45
Interface Type	—	RS-232
Format	—	RCDS
Speed	bit/s	9600
Environmental		
Temperature within specs	°C	+10 to +40
	°F	+50 to +104
Operating Temperature	°C	0 to +40
	°F	+32 to +104
Storage Temperature	°C	-20 to +70
	°F	-4 to +158
Power	V	85 to 265 V AC
Power Consumption (1 module)	W	7
Mechanical		
Dimensions	mm	482×365×44
	in.	19.0×14.4×1.7
Weight (3 modules)	kg	2.5
	lbs	5.5

Ordering Information

Description	Part Number
DigiStar MKII DS3/E3 - ASI Network Adapters *1	5219008
DigiStar MKII DS3/E3 - ASI Network Adapters *2	5219009
DigiStar MKII DS3/E3 - ASI Network Adapters *3	5219010
DigiStar MKII ASI - DS3/E3 Network Adapters *1	5219011
DigiStar MKII ASI - DS3/E3 Network Adapters *2	5219012
DigiStar MKII ASI - DS3/E3 Network Adapters *3	5219013



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