

Transmission solution for a low total cost of ownership

PDH Microwave

The AMR Streamline portfolio offers the most modern PDH product on the market. With high reliability and fast deployment it enables cost efficient point-to-point transmission solutions for cellular as well as private, public and fixed network operators.

The AMR Streamline portfolio presents a very user friendly, completely modular and flexible design, which is well proven in all climate zones. It is available in the 7-38 GHz frequency bands and the capacity is extremely flexible, different traffic interfaces from 2xE1 to 17xE1, E3+E1 and Ethernet can be selected on site.

With the best receiver thresholds on the market and high output power, you can use smaller antennas, saving costs, achieve a better availability or implement longer hops. The pioneering traffic routing concept enables software controlled traffic routing on E1 level integrated in each terminal for total control from one single point of operation and minimized need for external cabling.

The functionality of the AMR Streamline portfolio is completely software controlled. The embedded management system is based on open standard protocols. Equipment can be added without reconfigurations and routing paths are automatically discovered. As an option a high level network manager can provide a real-time overview of the complete network.

The management traffic is routed via one or more radio terminals in an Embedded Control Channel (ECC). A timeslot is taken from the E1 user traffic and used for control signalling. Management traffic from various radio terminals may be switched via the management network to an E1 link containing multiple management terminal channels, which can be fed via a router to the management terminal site. By using ECCs, it is easy to manage the AMR part of a network independently of the data communication network surrounding it.



Allgon Microwave Radio (AMR)

Key Features/Benefits

- Outstanding system gain for longer hops, smaller antennas or higher availability
- Exchangeable Traffic Interface Units
- Software-controlled capacity
- Built-in digital cross connect
- Redundancy and diversity with hitless switching
- Fully integrated management system
- True IP management network (DCN)
- Web and SNMP management on terminal level
- Automatic transmit power control (ATPC)
- Routing of management traffic via Embedded Control Channel (ECC)

Product Specifications

System

Frequency bands (GHz)	7	8	13	15EHP	15HP	18	23	26	38
Output power (dBm)	24	24	20	28.5	21	24	23	22	21
Power control* (in 0.1 dB steps)	15	15	15	>30	>25	>30	>30	>30	>30
Receiver thresholds [dBm] @ BER 10-6*:									
2xE1	-90	-90	-90	-91	-89	-90	-89	-89	-88
4xE1	-88	-88	-88	-89	-87	-88	-87	-87	-86
8xE1	-85	-85	-85	-86	-84	-85	-84	-84	-83
17xE1/E3+E1	-82	-82	-82	-83	-81	-82	-81	-81	-80
Modulation	Continuous phase modulation								
Occupied bandwidth	Software controlled acc. to ETSI 3.5, 7, 14 and 28 MHz								
Loopback functions	Included as standard								
Forward Error Correction	Included as standard								
Auto Transmit Power Control	Included as standard								
Redundancy	Hot standby, space-, frequency- and polarization diversity								
Traffic interface	ITU-T G.703 and IEEE 802.3								
Traffic capacities:									
E1	Software-controlled from 2xE1 to 17xE1								
E3+E1	E3+wayside E1								
Ethernet+nxE1	Software-controlled up to 36 Mbit/s, shared between								
Ethernet and up to 4xE1									

Management

Physical interfaces	Two RS-232 ports (PC or modem) and one Ethernet 10BaseT port Embedded control channel (64 kbit/s timeslot in E1) Control panel with keypad and display
Built in management protocols	HTTP server for web-based management Text terminal interface and Telnet server for CLI SNMP agent for higher-order management, FTP client for downloading software SMTP agent for fault notification via e-mail, SNTP agent for time synchronization Control panel with keypad and display

Physical

Power supply	24, 48 VDC, any polarity, max consumption 60W
Environmental robustness	According to ETSI standards, CE marking
Temperature ranges:	
Indoor Unit	-5° C to +45° C
Ethernet Traffic Interface	0° C to +40° C
Radio Frequency Unit	7-38 GHz -45° C to +65° C
Dimensions:	
Antenna Unit	0.3, 0.6, 1.2 1.8**, 2.4 or 3.0m (depending on frequency)
Radio Frequency Unit	185x185x140 mm (WxHxD, incl. handle)
Indoor Unit	483x44x277 mm (WxHxD) (19", 1U)
Weight:	
Indoor Unit	< 4.0kg
Radio Frequency Unit	< 4kg (15-38 GHz), <10kg (7-13 GHz)
Antenna Unit	Depending on frequency and size

**Remote mounting only

All specifications are subject to change without notice. Please contact your Allgon Microwave representative for complete data.

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Rev. G

EMEA (HQ)

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