



TÜBİTAK UEKAE
NATIONAL RESEARCH INSTITUTE OF ELECTRONICS & CRYPTOLOGY

SRL5800Q

Digital Radio Link Equipment

*The SRL5800Q Digital Radio provides short to long range, full-duplex, point-to-point digital communication at rates up to 8 x E1. The product makes use of **OQPSK** modulation and may be operated licence-free* in the 5.8 GHz-ISM band.*



- *Split Indoor and Outdoor configuration for optimum long range performance*
- *Low cost Indoor to Outdoor interconnecting cable up to 250 m*
- *Portable*
- *Quick and easy to install*
- *Alarm monitoring and management via built-in LCD display and keypad*
- *System Management support via built-in Ethernet Port (remote) or via RS-232 serial port (local)*
- *Built-in AC and DC power supplies*
- *Duplicated (1 + 1) protected configurations with frequency and space diversity*

** In some Countries*

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Technical Specifications

GENERAL

Data Capacity

- 8 x E1 (2 048 kb/s)

Operating Frequency Range

- 5.725 – 5.850 GHz
Plan-A (5735 MHz ve 5805 MHz)
Plan-B (5755 MHz ve 5825 MHz)
Plan-C (5775 MHz ve 5845 MHz)

Modulation

- OQPSK (Offset Quadrature Phase Shift Keying)

Transmisson Range

- 25 km, nominal (using 29 dBi antennas)
85 km, maximum (using 38 dBi antennas)

TRANSMIT / RECEIVE

Power Output

- 21 dBm, max. (20 dB range , Software Adjustable)

Trasmit-IF / Receive-IF

- 280 MHz / 70 MHz

Receive Level

- -55 dBm, nominal (-35 to -85 dBm range)

Receiver Sensitivity (BER=1E-6)

- -82 dBm

IDU / ODU INTERCONNECTION

- Single Coax. (RG-214), 250m max.

LINE INTERFACE

According to ITU-T G.703 and G.823 reports

Data Rate

- Full-duplex 1, 2, ...,8 x E1 (Software Selectable)

Line Code / Impedance

- HDB3 / 120 and 75 Ohm selectable

MANAGEMENT and MONITORING

Frontpanel of IDU

- LED's, LCD Display and Keypad

Remote Interface

- 9-pin D-Sub Conn. RS-232, 9600 bit/s and TCP/IP

Management

- UEKAE RF-Link Management Program

POWER SUPPLY

Input Voltage

- -24 / -72 VDC or 85 - 264 VAC

Power Consumption

- 15 W max. (1+0), 32 W max. (1+1)

ENVIRONMENTAL

ETSI doc. prETS 300-019-1-0

IDU / ODU

- Class 3.2 (0 / +50 °C) / Class 4.1 (-30 / +60 °C)

MECHANICAL

IDU

- 19“ Rack mount 1.5U height (483x235x67 mm)

ODU

- Weatherproof Box (390 x 205 x 57 mm)

ODU Mounting

- 50 - 114 mm O.D. Pipe