



COMMUNICATION UNIT

- Triband
- Quadband GSM
- GPRS
- GPRS cl 10 (Package)
- 10/100 Mbit Ethernet
- TCP IP Socket
- Optical Cable
- RF (Optional)

Communication unit provides GPRS, Ethernet and RF (optional) communication. This device tries to open in server TCP/IP socket over Ethernet. If it fails, over GPRS communication a backup of Ethernet is kept. Thanks to this communication, required meter data or orders by server are transferred to the meter with either optical cable or RF (according to distance between meter and communication unit or customer requirement) then meter data is transferred back to the server getting again the same way.

GPRS MODULE SPECIFICATIONS

General features

- Quad-Band 850/ 900/ 1800/ 1900 MHz
- GPRS multi-slot class 10/8
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
 - Class 4 (2 W @850/ 900 MHz)
 - Class 1 (1 W @ 1800/1900MHz)
- SAIC (Single Antenna Interference Cancellation) support
- Control via AT commands (GSM 07.07 ,07.05 and
- Supply voltage range : 3.2 ... 4.8V
- Low power consumption: 1.0mA (sleep mode&BS-PA- MFRMS=9)
- Operation temperature: -40°C to +85 °C

Specifications for CSD Data

- CSD up to 14.4 kbps
- USSD
- Non transparent mode

Software features

- 0710 MUX protocol
- Embedded TCP/UDP protocol
- FTP/HTTP
- FOTA (available at Q3 2010)
- MMS (available at Q3 2010)
- Embedded AT (available at Q3 2010)

Specifications for GPRS Data

- GPRS class 10: max. 85.6 kbps (downlink)
- PBCCH support
- Coding schemes CS 1, 2, 3, 4
- PPP-stack

Related Directive	R&TTE (1999/5/EC)
Related Standards	ETSI EN 301 489-1 V1.8.1 ETSI EN 301 489-7 V1.3.1 EN 60950-1 EN 301 511

RF MODULE (OPTIONAL) SPECIFICATIONS

This module could be integrated in the main board of meter or communication module so it is an internal part of meter or communication module. It is compliant with ETSI standards.

Radio Frequency Features	
Modulation	FSK (Frequency Shift Keying)
Frequency Carrier	863-868 MHz
Frequency Steps	16
Output Power	5mW (max)

Related Directive	R&TTE (1999/5/EC)
Related Standards	ETSI EN 301 489-1 V1.6.1 ETSI EN 301 489-3 V1.4.1 EN60529



**Manas Energy
Management of
Industry and Trade Inc.**

info@manas.com.tr
manas.com.tr

Factory

A.S.O. 1. Organize
Sanayi Bölgesi
Babürşah Caddesi No:7
Sincan 06935
ANKARA / TURKEY
t : +90 (312) 267 05 03 (pbx)
f : +90 (312) 267 05 09

Branch Office

Gür Sütlüoğlu Plaza
Cumhuriyet Cad.Yayabey sk.
No: 2 Kat: 1 Daire 1-2
Kavacık Beykoz
ISTANBUL / TURKEY
t : +90 (216) 680 28 22
f : +90 (216) 322 60 59

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