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DTU

Data from a network can be available in real time. It has have facility to transmit data via GSM and GPRS network to ensure data transfer in real time without any delay in case of network congestion. The DTU can automatically send message containing packet data to the server at configured time interval. Two way communications is possible in DTU. In case failure in data transmission, the DTU can switch over to BURSTY MODE to transmit the data as per the request from the server. The packet data from the DTU can be transmitted in ASCII format to the server. It supports both UDP and TCP protocols along with HTTP as well. Download over the Air (DOTA) can be done to avoid travelling to site for configuring the DTU. The DOTA is enabled in all DTU and it can be done either via SMS or over FTP.

FEATURES OF DTU - YDTU247

GSM and GPRS facility with fast and reliable wireless data communications can be provided using YDTU247. Remote dial-up facility is provided in DTU247. It supports voice, data and SMS. The core GSM/GPRS Module (Q2687RD Embedded Module) is from sierra wireless (previous name was wavecom) and supports Quad Band GSM transmission. It accepts standard SIM card with built-in-holder. The DTU can be configured by connecting a RS232 and USB cable to a local pc. However, Ethernet interface with other devices or local pc or data logger is not available currently. But the existing circuit design can be extended to add Ethernet facility. It has facility for static IP and domain transfer of data through GPRS as well. The YDTU247 is compatible with standard GSM/GPRS network existing in India. The YDTU247 can work in extreme conditions such as fog, thunderstorm and rainfall. The other feature is to measure the signal strength available nearby.

TECHNICAL SPECIFICATIONS OF DTU - YDTU247

Type of Modem	GSM/GPRS Modem, Modem with GSM/GPRS facility which allows fast and reliable wireless data communication along with support for dynamic domain access to the central server IP address.
Frequency range	Quad band, 850, 900, 1800 and 1900 MHz
Data communications	GSM/GPRS facility with fast and reliable wireless data communications.
Dial-up	Remote dial-up facility
Modem Support	Voice, SMS and Data
Transmission	Quad Band GSM/GPRS transmission
Built-in SIM card holder	Accept standard SIM card with built-in holder
Operating Temperature	-30 to +85 degrees Celsius

SPECIFICATION OF ANTENNA USED FOR DTU - YDTU247

Frequency range	The Q2687RD Embedded Module is quad band embedded module supports GSM/GPRS/EGPRS 900/1800/850/1900
	Quad band, 850, 900, 1800 and 1900 MHz
Impedance	50 ohms for all the bands
Gain	8dBi (minimum)
Radiation	Omni-directional
Operating Temperature	-30 to +85 degrees Celsius
Connector	SMA adaptable to GSM/GPRS modem
Cable length	As required