

DM20

DATALINK MODULE

Reliable Wireless Data Communication



HIGH COMPATIBILITY

The DM20 datalink module supports both transmit/receive work modes and mainstream protocols like TRIMTALK, TRIMMK3 TT450S and TRANSEOT. Designed with 410-470 MHz range and 12.5 kHz channel spacing, the DM20 shows high compatibility with various products and solutions.

STRONG PERFORMANCE

With advantages of stable output power, high receiving sensitivity, low error rate and strong anti-interference ability, the DM20 shows strong performance for real-time data transmission. The advanced features ensure its high performance even in harsh environments, which is suitable for RTK application.

EASE OF INTEGRATION

Featured surface-mounted design, 33×26.5×3.5mm small size, low power and good electromagnetic compatibility, the DM20 datalink module is specially designed for system developers to do various integrations, such as land surveying, precise agriculture and other unmanned systems.

GENERAL

Frequency Range	410-470 MHz
Channel Spacing	12.5 kHz
Work Mode	Half-duplex
Frequency Stability	>1.5ppm
Modulation Mode	GMSK
Air Baud Rate	9600bps/19200bps
Serial Port Baud Rate	4800/9600/19200/38400/57600/ 115200bps
Power Supply	3.3 – 4V
Impedance	50ohm
Protocol Type	TRIMTALK, TRIMMK3 TT450S, TRANSEOT

RECEPTION PERFORMANCE

Receive sensitivity	Better than -118dBm@BER 10-3, 11000bps
Co-channel interference rejection	>-12dB
Received power	0.25 W
Adjacent channel selectivity	>50dB@25KHz
Spurious immunity	>50dB

EMISSION PERFORMANCE

Transmit power	0.5W/1W/2W
RF Power stability	±1dB
Adjacent channel power	>50dB

PHYSICAL & INTERFACE

I/O Interface	80-pin SMT, pin pitch 1.27mm
Antenna Interface	IPEX male connector
Size (with connector)	33×26.5×3.5mm
Weight	5 g

ENVIRONMENTAL

Operating temperature	-40 °C to +70 °C
Storage temperature	-40 °C to +85 °C

All specifications are subject to change without notice.

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