M110 SERIES





Available in NB-IoT and LTE-M1

mPack Software Suite

with Workbench configuration tool

Last Gasp (factory option)

Two 2- or 3-way versatile I/Os



Smart Metering



POS & Kiosks



Oil & Gas Monitoring



Vending Machines



Industrial Automation

SNAP CAP™

Snappily converts M110 series' RS-232 port on a 9-pin sub-D connector into an *isolated**, half- or full-duplex (user-selectable via a slide switch) RS-485 port on a 5-pin, 3.5 mm pitch, COMBICON connector.

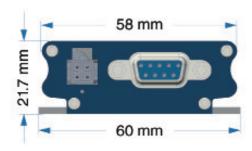
* i.e with integrated transformer, thus allowing for 1.5 km-long cabling

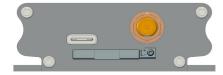




D2SPHERE™ device management services let you monitor, diagnose, control and update your Maestro and FALCOM devices. Information such as signal strength, geographic location, battery state, temperature, device firmware and software versions can be remotely monitored, stored and presented to help you maintain connectivity, manage quality of service and prevent downtime.

M110 Series specifications





TCP / UDP permanent client / server or on-demand

Conversion between Modbus RTU and Modbus TCP

via Workbench through RS-232 or, when available,

Configurable text and recipients upon Last Gasp

client with two TCP / UDP sockets for failover,

· Network connectivity watchdog

• Support for concatenated SMS

USB; also via SMS, Telnet or D2SPHERE™

DoTA via user's HTTP server or D2Sphere™

SOFTWARE (mPack software suite)

• Dial-up

Connectivity

Miscellaneous

Configuration

features

HARDWARE

Casing Extruded Aluminium **Dimensions** 60 x 66 x 21.7 mm

Weight Approximately 80 g

• Class A: -30°C ~ +70°C Operating • Class B: -40°C ~ +85°C temperature range

• Flash memory [executable]: 256 KB standard;

1 MB upon request • RAM: 128 KB

POWER

8 VDC \sim 32 VDC w/ Slow Start and absorption of Main Source

2G current bursts

Last Gasp Approximately 20-second-long via two industrial-grade super caps (factory option)

INTERFACES

RS-232 on a 9-pin sub-D connector

1. DCD 2. Rx 3. Tx

4. DTR 5. Ground

6. DSR 7. RTS

8. CTS 9. RI

on a Type-C connector (M113 and M115 only)

Two versatile* I/Os, either 2-way (M111 and M112) or 3-way (M113 and M115 only) I/Os

Cellular antenna External on an SMA connector

SIM interface 2FF SIM 1.8 V / 3.0 V

IFDs Two

i.e. user-configurable, each one independently from the other, as (i) analogue input; or (ii) digital output (2-way); or (iii) analogue input suited to the so-called 'current loop' sensors – aka 4 mA \sim 20 mA sensors (3-way)

Model Name	Territories or Operator(s)	CELLULAR TYPE	Band(s)	FALL BACK MODE	Bands	GNSS	PLANNED CERTIFICATIONS	FCS (*)	ORDER CODE
M111	EMEA, [most of] Asia Pacific	- 2G	3/8	×	N/A	x	RED, GCF	Q1 ′18 -	M111#02
	World excluding Japan, Korea		2/3/5/8						M111
M112	ЕМЕА	NB-IoT	8				TBD	Q2 ′18	M112#8
			20						M112#K
			8/20						M112#8K
	Asia Pacific		5						M112#5
			28						M112#S
M113	Verizon Wireless	- LTE-M1	13				FCC (**), Verizon Wireless		M113#D
	AT&T Wireless, T-Mobile USA, Sprint		2/4/5/12				FCC (**), PTCRB, AT&T Wireless		M113#245C
	World	LTE-M1 NB-IoT	2/3/4/5/8/ 12/13/20/28	2G	3/8		TBD	Q3 ′18	M113
M114	EMEA	LTE cat. 1	3/7/20				RED, GCF	Q1 ′18	M114#37K##38
	Asia Pacific		3/8/28	3G	1		RCM, NCC, NBTC	Q2 ′18	M114#38S#1
	NTT docomo		1/19	×	N/A		JPA, JRF	Q3 ′18	M114#1J
M115	EMEA, [most of] Asia Pacific	3G	1/8	2G	3/8		TBD	Q1 ′18	M115#02
	World		1/2/5/8		2/3/5/8		RED, GCF		M115

Please consult us regarding the models shown in grey which are subject to MOQ and other considerations

Uplink / Downlink maximum data rates - 3G: 5.76 / 7.2 Mbps; NB-IoT: 62.5 / 27.2 kbps; LTE-M1: 375 / 375 kbps; LTE cat. 1: 5 / 10 Mbps

* First customer shipment ** Also Class I Division 2 for use in explosive atmospheres