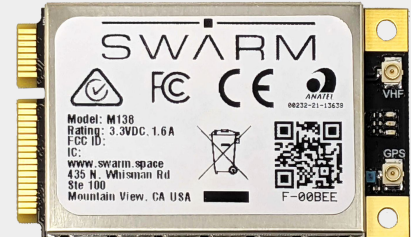
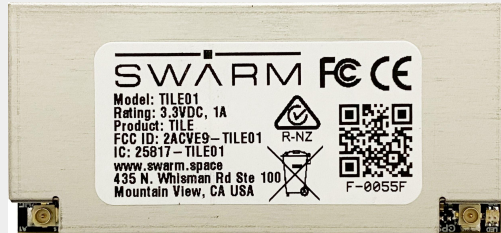


Swarm Modem Comparison



PRODUCT NAME	TILE01	M138 MODEM
CONNECTION TYPE	Surface Mount (SMT)	mPCIe
INPUT VOLTAGE RANGE	3.3V only	3.0V to 5.5V
SENSORS	Onboard GPS (lat/lon/alt)	Onboard GPS (lat/lon/alt)
DIMENSIONS	58.7 mm x 27.4 mm x 6.0 mm	51.0 mm x 30.0 mm x 5.3 mm
MASS	14 grams	9.6 grams
POWER	<p>Sleep mode (3.3V): 22 μA (max)</p> <p>Receive mode (3.3V): 30 mA (typ), 35 mA (max)</p> <p>Transmit mode (3.3V): 888 mA (typ), 939 mA (max)</p>	<p>Sleep mode (3.3V): 70 μA (max)</p> <p>Receive mode (3.3V): 26 mA (typ), 40 mA (max)</p> <p>Transmit mode (3.3V): 1275 mA (typ), 1600 mA (max)</p>
TRANSMIT POWER	~29.0 dBm	~30.5 dBm
ANTENNA CONNECTIONS	u.fl and pin optional	u.fl
ENVIRONMENTAL	Operational: -40 C to +85 C Storage: -55 C to +125 C	Operational: -40 C to +85 C Storage: -40 C to +85 C
COMMS PROTOCOL	3.3V CMOS Serial UART Hex-ascii String with NMEA-Checksum Required	3.3V CMOS Serial UART Hex-ascii String with NMEA-Checksum Required

CONTACT

 Website: www.swarm.space

 Email: info@swarm.space