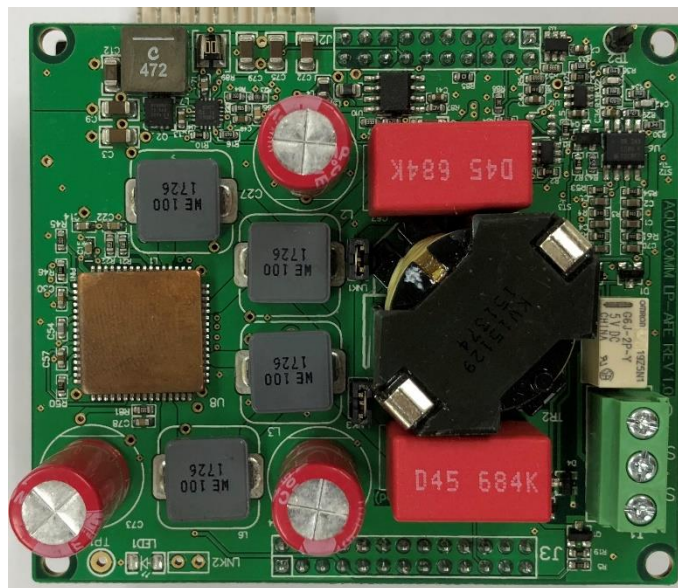




DATA SHEET

Aquacomm Gen2 Analog Front End (AFE)



Prepared by	DSPComm (Thailand) Co Ltd
Date	10 Sept, 2018
Revision	1.0

Acoustic wireless communications AFE Specifications	Value
- Receiver LNA gain	90db. Receiver matched for acoustic transducers
- Automatic Gain Control (AGC) Dynamic range	80db
- AGC Control	Via SPI control lines. AGC can be set to fixed gain if function not required
- Current consumption – receiver only	5mA @ 6VDC
- Receiver output	Single ended 0.5Vrms
- Frequency band	Can be set from 4kHz up to 25kHz
- Voltage range	6VDC to 12VDC
- Transmit power amplifier Maximum output	30W broadband 1kHz to 25kHz
- Transmit Amplifier input voltage	0.5Vrms
- Transmit Amplifier protection	Thermal and overload current protection built in
- Transmit amplifier input	Analog Differential
- Transmit amplifier maximum current	3A @ 12V for maximum transmit signal amplification.
- Low power capability	Can be put to sleep via control signal
- Duplex	Half duplex controlled via relay diplexer
- Physical dimensions	80cm x 70cm