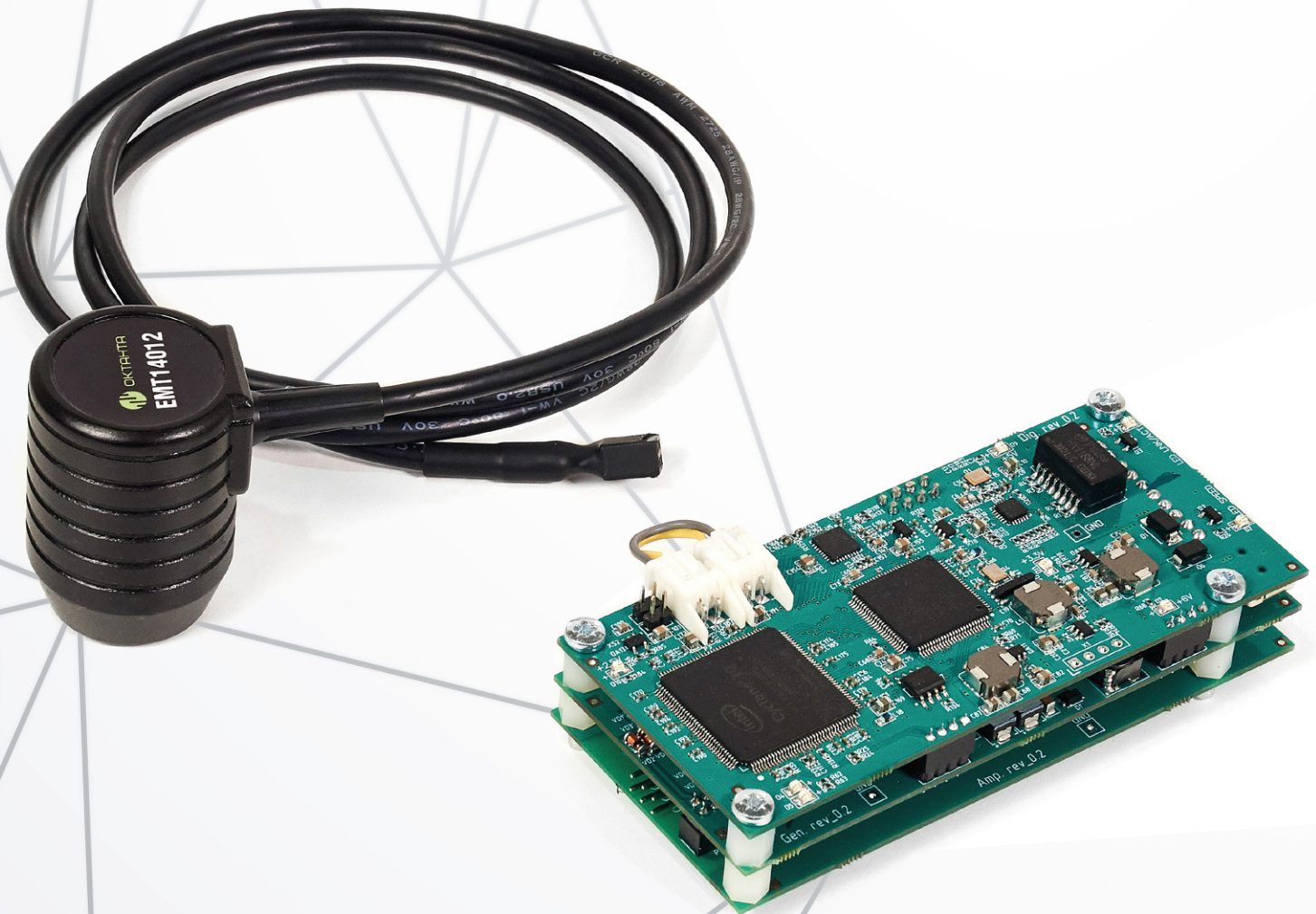




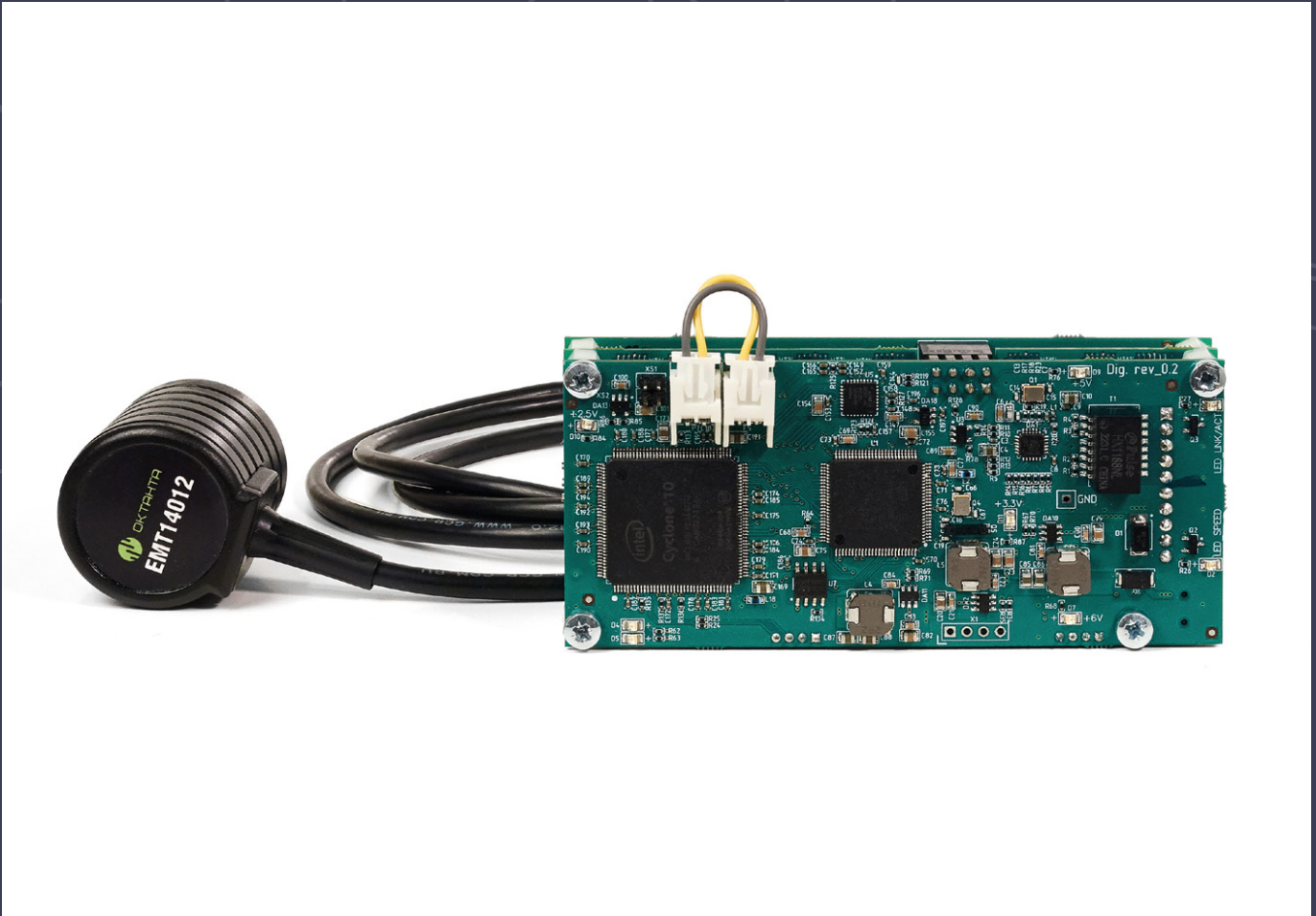
OKTANTA

> Design and manufacture of
non-destructive testing equipment

OEM EMA module EM4214



Application of EM4214:



OEM EM4214 module helps to integrate EMA transducers into your system to measure thickness of steel pipes, flat steel, rods, and other products made of steel, aluminum and other metals. The operating gap between the sensor and metal can be up to 6 mm.

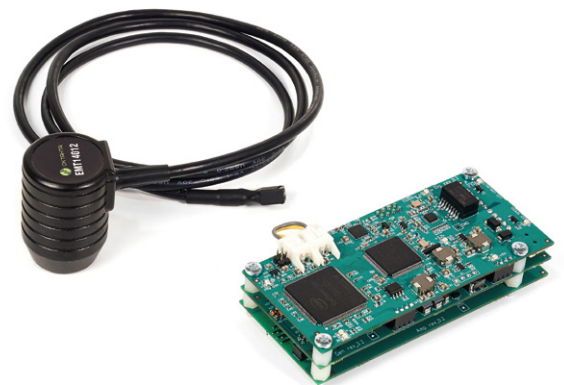


The module is compatible with all Oktanata EMA transducers, including the pulsed electromagnet probe.

Features:

EM4214 consists of a hardware unit built into a waterproof housing. The EMA transducer is connected to the unit. The package may contain various EMA transducers, including ones operating with a gap up to 6 mm, high temperature EMA transducers and pulsed electromagnet transducers.

A developer's manual and an exchange protocol are provided for integration into external systems.



The EM-Viewer helps you to start working with the module immediately: receive and process data in real time, save it in tabular form and configure the module.



EM4214 specifications:

Range of operating ambient temperature	-20...+50 °C
Power supply	12 V
Range of sound velocity setting	1000...9999 m/s with 1 m/s step
Highest number of measurements per second	16
Dimensions	100 x 45 x 28 mm
Dimensions with a waterproof housing	120 x 50 x 40 mm
Range of measured thickness for steel	2...80 mm
Range of measured thickness for steel without gap	2...200 mm
Thickness measurement error 2..25 mm	0.08+0.001·H mm
Thickness measurement error 25..200 mm	0.1+0.005·H mm
Permissible gap between the sensor and tested object (with EMT14012)	up to 4 mm
Permissible gap between the sensor and tested object (with EMT14013)	up to 6 mm
Permissible sensor skew relative to the tested object surface normal	±25°
Lowest permissible radius of curvature of the tested object surface	≥10 mm
Operating frequency of the device	4 MHz
Range of operating ambient temperature (-20 ...+750 °C where the EMT40004T transducer is used)	-20...+80 °C

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