



Willow Run (WR) Test Labs, Inc.
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Attn.:Federal Communications Commission
Equipment Approval Services
P.O. Box 358315
Pittsburgh, PA 15251-5315
Re: Certification for Bartec USA, LLC Tech450Pro/Tech550Pro/Tech600Pro
FCC ID: SX8DSW9

If necessary, we have enclosed application materials for certification of Bartec USA, LLC Tech450Pro/Tech550Pro/Tech600Pro. It has been verified to comply with CFR Title 47, Part 15.209.

Current Variants:

There are three variants of the EUT, the Tech450Pro, the Tech550Pro, and the Tech600Pro. RF and LF circuitry in all variants is identical, except that the Tech450Pro and Tech550Pro both populate a 25 pin digital interface connector while the Tech600Pro populates a USB connector for an external flash drive.

History:

Original Grant: May, 2021; FCC ID: SX8DSW9; IC: 5736A-DSW9, model: Tech450Pro, Tech600Pro.

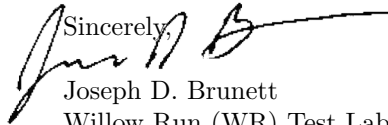
Changes Made:

The original models (Tech450Pro, Tech600Pro) are being updated to allow for the use of different reference crystals (frequencies unchanged), an alternate transistor (TR1), as well as an alternate (pin-to-pin compatible) microprocessor, all due to industry component shortages. Additionally, a 3rd variant (model Tech550Pro) is now introduced that is identical to the updated Tech450Pro except for minor user software icon variations. A Class II permissive change is being completed to demonstrate continued compliance due to the minor changes to the reference crystal layouts.

Action Taken:

The EUT samples employing the new components and minor associated layout changes are fully tested herein. Resulting emissions data indicate no significant deviations have occurred as a result of these changes, and the manufacturer requests these updated variants be approved.

The changes made qualify as a permissive change for FCC (ref. FCC, Part 2, 2.1043(a)(1)). If there are any questions regarding the application or testing performed, please contact us at the above address or call (734) 252-9785, or e-mail info@wrtest.com.

Sincerely,

Joseph D. Brunett
Willow Run (WR) Test Labs, Inc.

Changes between the Tech 450 and the Tech 550

- C2 & C66 xtal tuning caps have been removed.
- Alternatives added for the oscillator, a new crystal was added as an alternative.

Quantity	Component Reference Text	Supplier Name	Supplier Part Number
		Jauch Quartz UK	
2	OSC1, OSC2	Ltd	453754
2	C2, C66	Walsin	0402F104Z250CT

and

Quantity	Component Reference Text	Supplier Name	Supplier Part Description
2	XTAL1, XTAL2	Abracon	ABM3B-8.000MHZ-B2-T 1828876
4	C132, C133, C134, C135	Farnell	1828876
2	R188, R189	ANGLIA	Eurohm*RD391

- Alternative for TR2 transistor (drop in replacement) due to part availability.
Nexperia PHN210T or Alpha & Omega AO4818B
- Alternative to U16 microprocessor (drop in replacement) due to part availability.
GD32F103VGT6 or STM32F103VGT7