

# HONEYWELL GEN7 SERIES DECODER BOARD

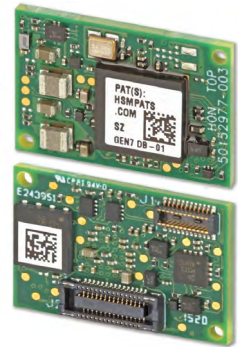
## Adaptus 7.0 Platform Miniature Decoder Board Family

Next-generation miniature decoder board family enhances the performance of Honeywell's undecoded scan engine portfolio through faster processor speeds, a newer software platform, and flexible interface options

The Honeywell Gen7 series decoder board family hosts the Adaptus 7.0 platform to support the next generation of Honeywell's undecoded scan engine portfolio. Besides its high performance and small form factor, users will continue to benefit from the most complete barcode symbology support, superb motion tolerance, and aggressive scanning of all barcode types, even those poorly printed or read directly off of smartphone screens. The Honeywell Gen7 series decoder board is also flash-upgradable, ensuring continuous innovation and support.

Customers can choose either a TTL serial or a USB interface for board-to-board, snap-on installation to the customer's main board, which is then secured using additional hold-down screws. This 'cable-less' solution eliminates the need for an additional flex cable and connector while providing a more compact footprint. The Gen7 series decoder board family supports parallel interface with Gen7 DB and MIPI interface with Gen7M DB to broaden Honeywell's undecoded scan engine portfolio options.

Operating across a wide temperature range of -30°C to 60°C [-22°F to 140°F], the Honeywell Gen7 series DB matches the operating temperature range of Honeywell's latest undecoded scan engines. The Honeywell Gen7 series decoder board is backwards compatible with the MINI DB decoder board, sharing the same electrical pin-outs and mechanical fit, facilitating a seamless transition of current designs to the Gen7 series decoder board platform while enhancing performance. Customers may easily embed a complete 2D imaging solution in an exceptionally small space—offering greater design flexibility in the integration.



Honeywell Gen7 DB, front and back views



Honeywell Gen7M DB front and back view

## FEATURES AND BENEFITS



Compact form factor frees up more room to integrate other technologies, minimizes adjustments, expedites design, and reduces total costs



Electrically and mechanically compatible with the MINI DB to support Honeywell's latest undecoded scan engine offerings.



Supports beyond barcodes functionalities such as OCR and EasyDL™ plug-in.



Wide operating temperature range provides application flexibility.



Includes Honeywell's latest decode library for optimized performance.

# GEN7 SERIES Technical Specifications

TABLE 1. MECHANICAL		
CHARACTERISTIC	PARAMETER	
Dimensions (H x W x D)	20 mm x 14 mm x 4,8 mm [0.79 in x 0.55 in x 0.19 in]	
INTERFACE: INPUT OUTPUT	<b>Gen7 DB</b> 30-pin connector for scan engine parallel interface board- to- board connector with RS TTL and USB HS (480 Mbit/s) available	<b>Gen7M DB</b> 34-pin connector for scan engine MIPI interface



Honeywell Gen7M DB with the S0703SR scan engine

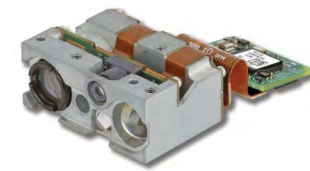
TABLE 2. PERFORMANCE						
CHARACTERISTIC	PARAMETER					
	GEN7 DB + EXTENDED FLEXRANGE™ EX30 SCAN ENGINE	GEN7 DB + N670X SERIES SCAN ENGINE	GEN7 DB + N3601 SCAN ENGINE	GEN7M DB + N5701 SCAN ENGINE	GEN7M DB + N5703 SCAN ENGINE	GEN7M DB + S0703 SCAN ENGINE
INPUT VOLTAGE	3.1 V to 3.6 V			3.15 V to 3.45 V		
OPERATING CURRENT AT 3.3 V:						
RS MODE	420 mA	310 mA	250 mA	250 mA	260 mA	250mA
USB FULL SPEED	430 mA	320 mA	260 mA	260 mA	270 mA	250mA
USB HIGH SPEED	432 mA	322 mA	263 mA	270 mA	280 mA	270mA
IDLE CURRENT AT 3.3 V:						
SCAN ENGINE POWERED:	105 mA	83 mA	74 mA	85 mA	95mA	90 mA
RS MODE	110 mA	90 mA	80 mA	95 mA	95mA	95 mA
USB FULL SPEED	113 mA	93 mA	82 mA	110 mA	110mA	110 mA
USB HIGH SPEED						
SCAN ENGINE NOT POWERED:						
RS MODE		75 mA			65 mA	
USB FULL SPEED		80 mA			70 mA	
USB HIGH SPEED		83 mA			85 mA	
STANDBY/SUSPEND:						
RS MODE		2.0 mA			3.3mA	
USB FULL SPEED		1.0 mA			2.3mA	
USB HIGH SPEED		1.2 mA			2.3mA	
WORKING MODE	• operation (scanning/decoding) • standby (RS)/suspend (USB) • idle • power off					
INDICATORS	beeper and good read LED signals available on the output connector					
SUPPORTED SCAN ENGINES	Extended FlexRange EX30, N670X Series, N3601			S0703, N5703, N5701		
SUPPORTED SOFTWARE	ESS, OCR, EasyDL™, TotalFreedom®					
MTBF*	3.7M hr			2.6M hr		
WARRANTY	15-month limited warranty; the warranty period starts at date of shipment from Honeywell to customer					



Honeywell Gen7M DB with the N5701HD scan engine



Honeywell Gen7M DB with the N5703 scan engine



Honeywell Gen7 DB with the extended Flexrange EX30 scan engine



Honeywell Gen7 DB with the N670X series scan engine



Honeywell Gen7 DB with the N3601 scan engine

## For more information

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## Honeywell Industrial Automation

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