



## **NATIONAL HYBRID, INC.**

2200 Smithtown Avenue, Ronkonkoma, NY 11779  
(631) 981-2400 FAX (631) 981-8888

# **Mil-Std-1553/1760 Products**

## **NHI-15475ET 4MHZ 'EXPRESS' Terminal**

### **Dual Redundant Enhanced Terminal**

### **Bus Controller, Remote Terminal, Bus Monitor,**

### **Concurrent RT/Monitor, 16K Words Internal RAM**

The NHI-15475ET is a high speed 'EXPRESS' Mil-Std-1553 & Multiprotocol Terminal, that operates between a dual redundant bus and a host processor, with data rates up to and including 4MHz. The electrical media can be a 'standard' RS485 or other interface, operating from the single +5v supply. The device functions as a programmable Bus Controller, Bus Monitor and Remote Terminal, containing a protocol chip and 16K words of SRAM. The unit is available packaged in a 0.95" x 0.95" 68 pin ceramic quad flatpack.

The NHI-15475ET appears to the host computer as Dual Ported, Double Buffered, 16 Bit wide Shared memory, controlled by standard RAM signals, making the device interface easily with all popular processors and buses. The built in interrupt controller supports an internal FIFO which retains header information for queuing up to 6 pending interrupt requests plus an overflow interrupt or a seven level revolving fifo.

All modes of operation access data tables via pointers residing in RAM which facilitates multiple buffering. This allows buffers to change without moving data and promotes efficient use of RAM space. The data tables have programmable sizes and locations.



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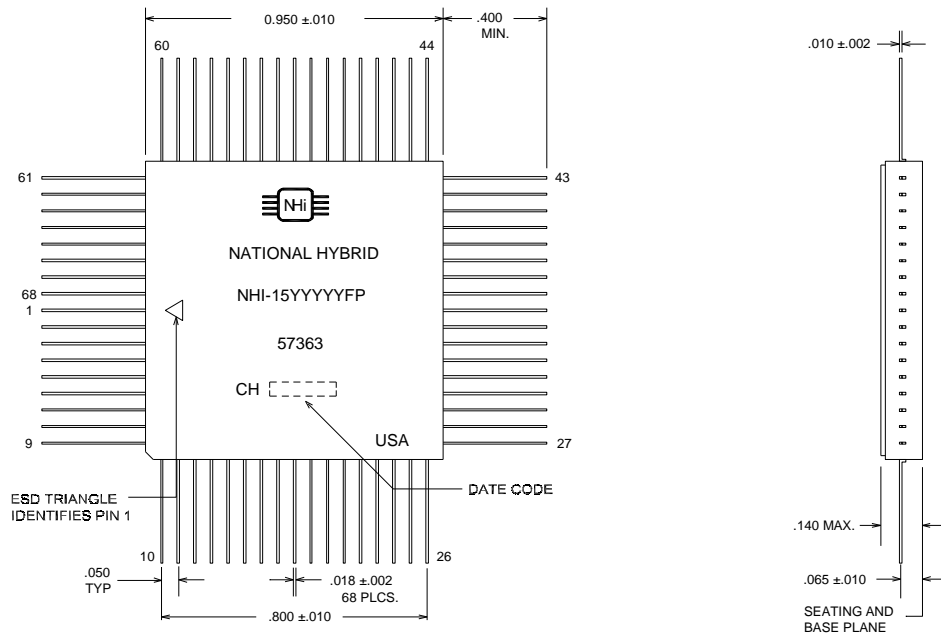
**[www.nationalhybrid.com](http://www.nationalhybrid.com)**

# PIN FUNCTION TABLE

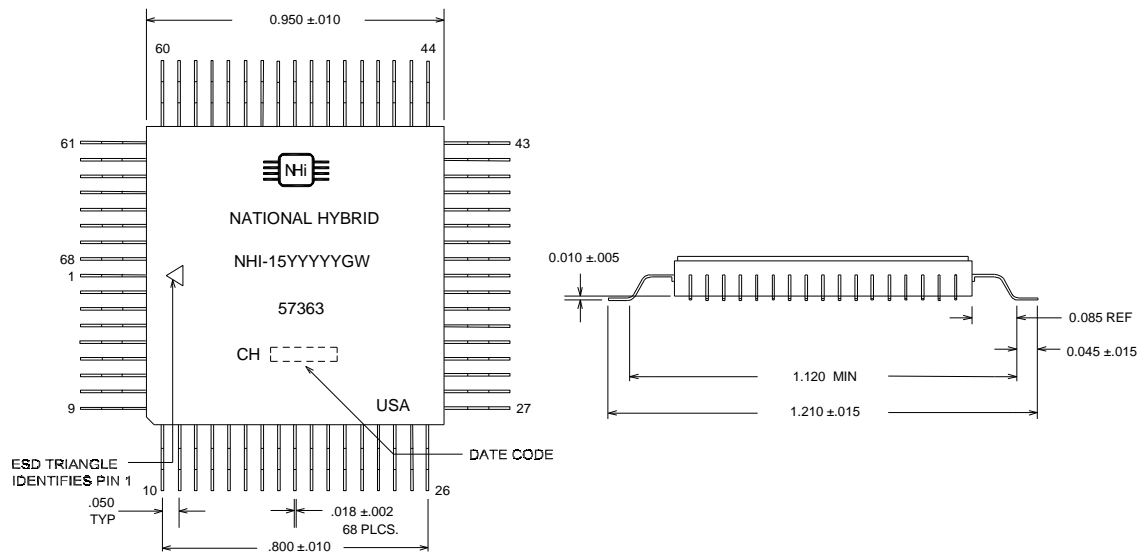
## UNIVERSAL PIN FUNCTIONS FLAT PACK PACKAGE

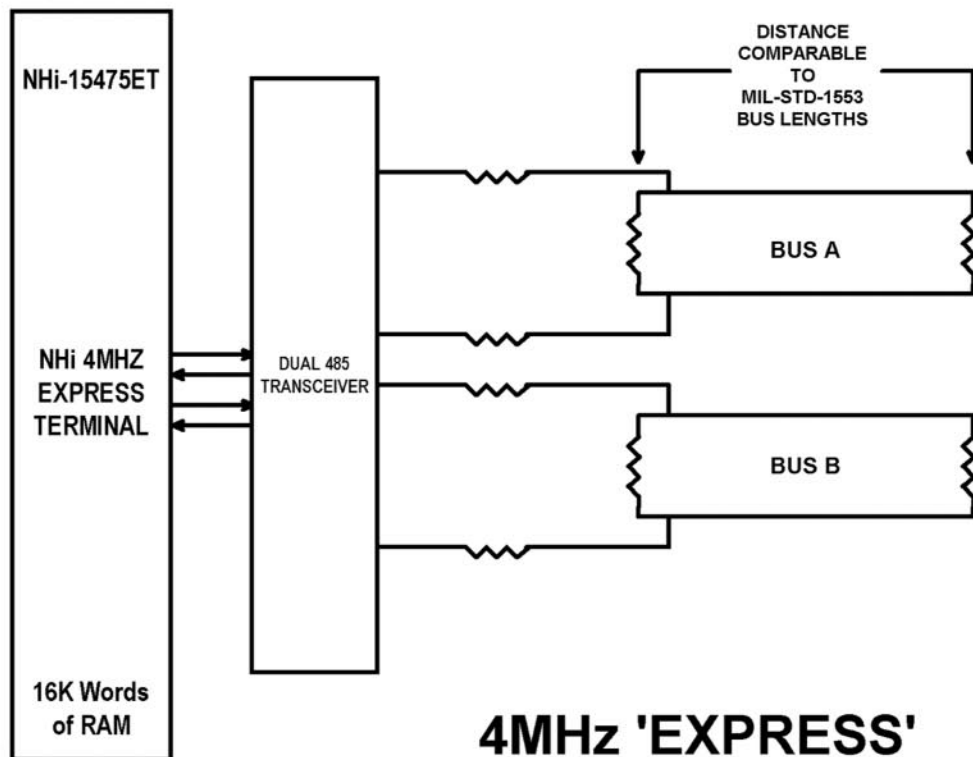
QFP	PGA	FUNCTION	QFP	PGA	FUNCTION
1		I/O_DAT1	35		H_ADR4
2		I/O_DAT2	36		H_ADR5
3		I/O_DAT3	37		H_ADR6
4		I/O_DAT4	38		H_ADR7
5		I/O_DAT 5	39		+5V
6		I/O_DAT6	40		+5V
7		I/O_DAT7	41		GND
8		HCS_L	42		GND
9		SSF_TF	43		GND
10		MRST_L	44		H_ADR8
11		CLK10	45		H_ADR9
12		TXA_H	46		H_ADR10
13		TXA_L	47		H_ADR11
14		INTPO_L_DSC	48		H_ADR12
15		INTPI_L	49		H_DAT0
16		INTACK_L	50		H_DAT1
17		RXA_L	51		H_DAT2
18		RXA_H	52		H_DAT3
19		RXB_H	53		H_DAT4
20		H_ADR13	54		H_DAT5
21		CMDS	55		H_DAT6
22		RXB_L	56		H_DAT7
23		TXB_H	57		H_DAT8
24		TXB_L	58		H_DAT9
25		H_ADR14	59		H_DAT10
26		I/O_RD_L	60		H_DAT11
27		I/O_WR_L	61		H_ADR1
28		MDCDRST	62		HRD_L
29		PLSCMD/B_JAM	63		HWRL_L
30		IRQ_L	64		HWRH_L
31		DTACK_L	65		H_DAT13
32		H_DAT12	66		H_DAT14
33		H_ADR2	67		H_DAT15
34		H_ADR3	68		I/O_DAT0
-	-	-	-		N/C

## MICRO QUAD FLAT PACK UNFORMED LEADS



## MICRO QUAD FLAT PACK GULL WING LEADS





## 4MHz 'EXPRESS' 1553/485 Solution

### Ordering Information:

NHI-15475ET GW / M

Reliability Grade

M = Screened to Mil-Std-883, -55 to +125 °C

T = Industrial, -55 to +125 °C

Blank = Industrial, -40 to +85 °C

Package Style

FP = Flatpack

GW = NHi Standard Gull Wing Lead Formed Flatpack

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