



Universal Communications

- 3 Ports to Support All Games
 - USB 2.0 Full Speed (Future GSA Compliant, IGT Compliant)
 - RS232 Port (Backward Compatible)
 - NetPlex Port (Backward Compatible)

ITH® (Intelligent Ticket Handling)

- Makes Ticket Available ONLY after Fully Printed Internally & Automatically Burst

Large Paper Capacity

- 50% More Standard Ticket Capacity Saves \$200/Printer Annually

IntelligentBezel™ System

- Paper Jam Reduction via Blocked Bezel Detection

Award-Winning Printer

- Most Decorated Printer in Gaming

Superior Electro-Mechanical Design

- High Reliability and Easy Maintenance

ProColor™ Printing

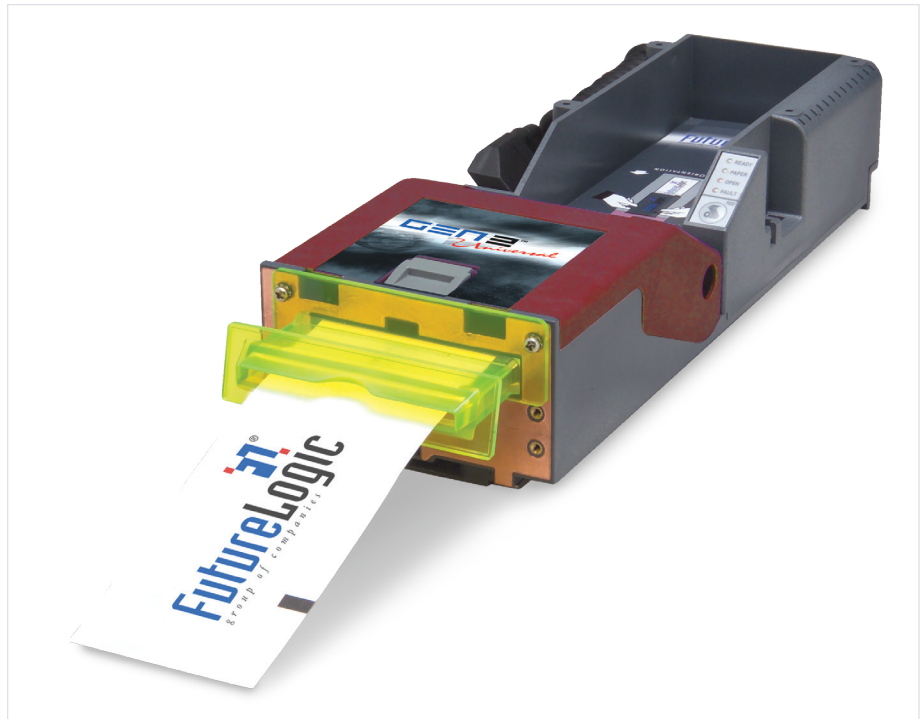
- Readily Available 2-Color Printing Technology

Expanded Graphics Memory

- Stores Hundreds of Clip Art Objects and Thousands of Graphic Templates

Hot Swappable

- Printer Removal Without Powering Down



The GEN2 Universal™ family of printers builds on the technology that has made FutureLogic the leading manufacturer of TITO ticket printers for cashless gaming. Developed with design feedback from global gaming OEMs and casinos, the GEN2 Universal printers are compatible with existing gaming platforms (RS232 and NetPlex) as well as the next generation of downloadable, server-based and USB games.

The GEN2 Universal printers anticipate new GSA standards for downloadable games, are IGT compliant and permit in-game firmware updates via the USB communications port. In addition to the interoperability and ease of integration

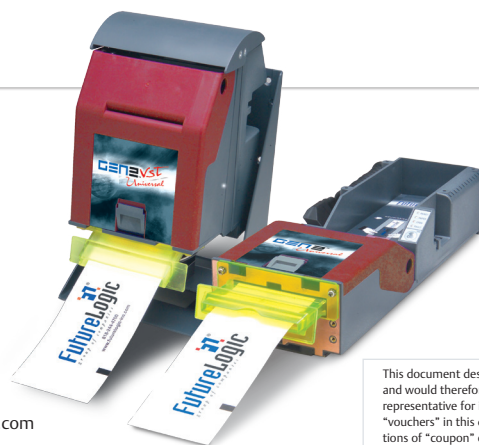
required for the next generation of electronic games, the GEN2 Universal printers offer compatibility with existing games on your floor, allowing you to specify a single printer for your entire property. And when combined with a proven track record of reliability, over one million (1,000,000) FutureLogic printers are helping operators maximize playtime and reduce operational costs worldwide.

General		Printing Resources	
Dimensions (WxDxH)	110mm x 304.8mm x 64.3mm	Template Capacity	4Mb; Stores Hundreds of Clip Art Objects & Thousands of Graphic Templates
Weight	2.7 lbs.	Graphic Storage	4Mb
Power Requirements	24Vdc @ 2.7A	Color Printing	Red on Black and Blue on Black are Available. Other Colors can be Supported as the Print Media Becomes Available. Color Selection is Controlled Through the TCL™ Language.
Sensors	Paper Low, Paper Out, Printer Drawer Open, Ticket Taken, Ticket Jam, Ticket in Chute, Black Mark (Includes a Host Controllable Buzzer)	Characteristics	
Printing Speed	90mm/Second (3.5"/Second)	Printer Languages	TCL Printer Language (Page Description Language) Subset of ESCP2
Print and Present	2.2 Seconds	Fonts	8 (2.5 cpi, 3.3 cpi, 4.0 cpi, 5.5 cpi, 5.6 cpi, 7.3 cpi, 10.1 cpi, 20.5 cpi)
Printing Width	62mm (true near-edge printing)	Font Scalability	May Be Independently Scaled from 1x – 7x in Both Height and Width
Storage	300 Tickets	Bar codes	PDF-417, Interleaved 2 of 5, Code 39, UPC-A, UPC-E, UPC-E+2, UPC-E+5, Codabar, EAN-13, EAN-8, Code 128, MSI
Ticket Tray Extenders	Interchangeable, 600, 900 Ticket Tray	Memory	2MB with 512K RAM
Resolution	8 dots/mm (203 dpi)	Interface	
Firmware	Application in Memory is Reprogrammable (via Flash BIOS)	Communications	USB 2.0 game interface (full speed of 12Mbps) with separate USB Download Port, Future GSA Compliant, Compliant with GSA GDS, IGT USB and traditional communication protocols RS232C and Netplex
Self Test	Yes	Environmental	
Page Mode	Full Page Mode Printing (Simultaneous 4 Orientation Printing: 0°, 90°, 180°, 270°), Line and Box Draw Printer Resident, Bitmap Graphics, Printer Resident (Stored in Flash) Graphics	Operating Temperature	0°C to 65°C
Paper Loading	Manual	Storage Temperature	-20°C to 75°C
Paper Feed	Automatic	Operating Humidity	5 to 85% RH non-condensing
Media	Direct Thermal, Top Coated, Fanfolded and Perforated	Reliability	
Paper Specification	66mm W x 156mm L 4.5 mil, 1 Color/2 Colors	Maintenance	Annual Print Head Cleaning Required
Bezel Control	Two High Current Ticket Printing Bezel Control Ports	Print Head Life	100km Min. (656,000 Tickets Based on US Currency Size)
User Interface	4 LED Indicators, Paper Advance Button	Certifications	ISO 9001, CE Certified, RoHS, UL
Upgrade Port	Allows for Printer Upgrades via USB Download Port or RS232C Main port		
Hot Swappable	100%		



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This document describes product functions and technology that may not be available in a particular gaming jurisdiction, and would therefore not be available for sale and not approved for use at this time. Please contact your local sales representative for information concerning what features are available in your jurisdiction. All mentions of "voucher" or "vouchers" in this document refer to "Slot Machine Payout Receipt" or "Slot Machine Wagering Voucher" and all mentions of "coupon" or "coupons" in this document refer to "Slot Machine Coupon" according to *Technical Standards for Gaming and Online Slot Machines (Rev 03/06)*.

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