

- IBM Industrial Computer Feature Enhancements and Additions

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See final section for details of availability and limitations.

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## Title

IBM Industrial Computer Feature Enhancements and Additions

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## Abstract

Several features enhancements and additions are available for the family of Industrial Computers 7537, 7546 and GEARBOX Model 800:

- Space-saving Industrial Keyboard

- Multi-type Keyboard Rack-mount Drawer

For the 7537 and 7546 only:

- Internal Tape Backup Unit

Information is also provided on commercially available keyboards that provide enhanced environmental protection.

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## General Availability

Planned General Availability Date is October 2, 1992.

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## Product Number

Description	Feature	Part Number
Multi-type Keyboard Rack-mount Drawer (no lock)	6908	41G3526
Internal Tape Backup Unit	6887	41G3400

OS/2 and DOS programs, that have been previously announced, supporting the tape backup unit are available (listed in the Programming Requirements).

Two different keyboard types are now available for IBM's Industrial Computers:

The enhanced industrial keyboard is 492 mm (19.4 inches) long by 210 mm (8.3 inches) wide. This keyboard type has been available with earlier models of the Industrial Computers.

The new space-saving industrial keyboard is 406 mm (16.0 inches) long by 190 mm (7.5 inches) wide.

Both keyboards are 58 mm (2.3 inches) high, and provide the same functions, some of which are combined on common keys on the space saving keyboard. Keyboards are separately priced and orderable, and may be ordered in any quantity. The new space-saving industrial keyboards are listed below:

	Feature -----	Part Number -----
Space-saving Industrial Keyboard (84-key)		
English (U.K.)	6889	41G3566
Swedish	2768	41G3567
French	6891	41G3568
German	6892	41G3569
Italian	2769	41G3570
Spanish	6894	41G3571
Belgian	6896	41G3572
Turkish	6897	41G3573
Dutch	6898	41G3574
Swiss/German/French	2772	41G3575
English (U.S.) (EMEA)	2767	41G3565

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## Highlights

High capacity internal tape backup unit satisfying growing customer requirement for easy, reliable, fixed disk backup capability

With the tape backup unit user productivity is improved with the ability to operate using a minimum number of keystrokes or mouse

Keyboard accessibility and ease of use substantially improved with the addition of the space-saving industrial keyboard and multi-type keyboard rack-mount drawer

Multi-type keyboard rack-mount drawer has increased usability, accomodating multiple keyboard types, including vendor keyboards with enhanced environmental capabilities

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## Description

### User Productivity

The space-saving industrial keyboard, and multi-type keyboard rack-mount drawer offer the customer the capability to quickly access the keyboard and conveniently input data, while the internal tape backup unit provides an easy, reliable, and quick method for backing up high capacity fixed disk systems. These feature enhancements will shorten response times, improve operational productivity, and reduce system management costs.

### Open Enterprise

The multi-type keyboard rack-mount drawer satisfies the following standards for mounting in 19 inch cabinets or frames: IEC 297-1, DIN 41494 Part 1, EIA-RS-310-C. When installed in a rack, the multi-type keyboard rack-mount drawer also satisfies IP55 (front cover) and DIN 40 040.

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## Product Positioning

The announced features offer the customer price and function advantages. The capability to use multiple keyboard types in the multi-type keyboard rack-mount drawer enhances function, and the price is lower than the existing keyboard drawer product. The multi-type keyboard rack-mount drawer is complemented by the announcement of a space-saving industrial keyboard which increases accessibility and ease of use. Customer requirements are again satisfied with the addition of an internal tape backup unit which provides easy to use, reliable, fixed disk backup capability.

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## Publications

The following publications are shipped with the products, and can not be ordered separately.

Title	Description
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Space-saving Industrial Keyboard (84-key) Instruction Booklet	Multi-Language Instruction Booklet
Multi-type Keyboard Rack-mount Drawer (no lock) Installation Instructions	Pictorial-only Installation Instructions
Internal Tape Backup Unit Installation Instructions	

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## Technical Information

## Specified Operating Environment

### Physical Specifications

Space-saving Industrial Keyboard (84-key):

Width: 406mm (16.0 inches)

Depth: 190mm ( 7.5 inches)

Height: 58mm ( 2.3 inches)

Weight: 1.90kg ( 4.2 pounds)

Multi-type Keyboard Rack-mount Drawer (no lock):

Width: 481.3mm (18.9 inches)

Length: 514.5mm (20.3 inches)

Height: 88.9mm ( 3.5 inches)

Weight: 4.5kg (10.0 pounds)

Internal Tape Backup Unit:

Width: 102mm ( 4.0 inches)

Depth: 150mm ( 5.9 inches)

Height: 41mm ( 1.6 inches)

Weight: .68kg ( 1.5 pounds)

### Operating Environment

Installation of the Internal Tape Backup Unit in the industrial computer limits environmental operating conditions to:

Temperature: 12.8 to 45.0 degrees C (55 to 118 degrees F)

Relative Humidity: 20 to 80 (percent)

Installation of the Multi-type Keyboard Rack-mount Drawer will support environmental conditions specified by:

IP55 and DIN 40 040

### Machine Requirements

The following new features and enhancements apply to the IBM 7537 and 7546 Industrial Computers, and to the GEARBOX Model 800:

Space-saving Industrial Keyboard

Multi-type Keyboard Rack-mount Drawer

The following enhancement applies to the IBM 7537 and 7546 Industrial Computers:

Internal Tape Backup Unit

### Programming Requirements

The Internal Tape Backup Unit is designed to operate with:

	Feature	Part Number
	-----	-----
IBM PS/2 Internal Tape Backup Program Version 2.0 (OS/2 PM compatible)	5696-248	92F3343
IBM PS/2 Internal Tape Backup Program Version 2.0 (DOS compatible)	5696-166	87F9828

## Planning Information

### Customer Responsibilities

The design of the multi-type keyboard rack-mount drawer permits the customer to take advantage of other keyboard types being commercially marketed.

Some customers have identified a need for keyboards to operate in a hostile industrial environment. The keyboard information referenced below is provided by an authorized product representative, and addresses the industrial requirement for a splash-proof and dust-proof keyboard. Other products may also be commercially available which have not been identified in this announcement.

The following industrial keyboards are compatible with the PS/2 and provide autosense, mount in a 19 inch rack, and meet the European Standards per DIN 40050:

Preh Electronic Industries' Industrial Keyboard offers:

Splash/Dust Proof: IP-64

103 keys

Part Number: 90308-001/0002

Marquardt Switches Inc.'s Industrial Keyboard offers:

Splash/Dust Proof: IP-65

102 keys

Part Number: 7070.1002

IBM has not evaluated the listed products and makes no comments or judgements about their function, quality, performance, etc. Users should contact the product manufacturers directly to verify product function, prerequisites, prices, availability and suitability for the user's purposes:

Preh Electronic Industries  
470 East Main Street  
Lake Zurich, IL 60047-25

Marquardt Switches Inc.  
2711 Route 20 East  
Cazenovia, N.Y. 13035

## Cable Orders

No cables required.

## Installability

The Internal Tape Backup Unit requires no more than 30 minutes for installation. Installation of the Multi-type Keyboard Rack-mount Drawer (no lock) into a standard 19-inch rack requires no more than 15 minutes. Keyboards are easily connected to the industrial computer and laid into the keyboard drawer, taking only a few minutes for installation.

## Problem Determination

After installation the customer should run the system or feature level diagnostics provided with the industrial computer installation and operations guide, or in the instructions that accompany each feature.

## Security, Auditability and Control

User management is responsible for evaluation, selection and implementation of security features, administrative procedures and appropriate controls in application systems and communications facilities.

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## Terms and Conditions

All terms and conditions are the same as those applicable to the Industrial Computer in which the feature is installed. Refer to Letters ZG89-0248, ZG91-0292 or ZG91-0296, which are available from IBM on request.

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#### Announcement Countries

All European, Middle Eastern and African Countries.

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The data in this letter is subject to the disclaimer in Letter ZS90-0112, which is available from IBM on request.

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